PROFESSIONAL LOUDSPEAKERS & COMPRESSION DRIVERS
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Celestion professional loudspeakers and compression drivers have earned an enviable global reputation for innovative design, exceptional performance and superior reliability.

The pursuit of excellence begins with a world-leading team of R&D engineers, led by experienced Head of Engineering Paul Cork at our purpose-built facility in Ipswich, England. The team are supported by state-of-the-art design, development, analysis and testing tools as well as experienced technical drawing and specialist development technicians with the resources on-site to prototype, test and measure the performance of new designs.

In addition to developing our standard range, the R&D team also works with our OEM customers to establish the parameters of a specific project and identify the best way to fulfill the design brief, either by modifying an existing model or developing a new product ‘from the ground up’.

Celestion’s R&D department also calls upon the expertise of the Group Research team, headed by Mark Dodd (inset). Its remit is to discover and develop new technologies, techniques and processes that add value to the fast-expanding portfolio of Celestion professional audio products. Mark is a participating member of the Audio Engineering Society, and one of the foremost contributors of authoritative papers on compression driver and loudspeaker technology.
Celestion has access to the latest design software employing the principles and methods of Finite Element Analysis (FEA) for efficient loudspeaker development, as well as design tools such as 3-D CAD and printing for technical visualisation and prototyping.

With more than 100 years of combined experience in loudspeaker design and development, the Celestion team has pushed the boundaries of these tools to achieve new levels of flexibility in modelling and accuracy in measurement, and created custom software to perform more in-depth analysis and to enable more revealing presentation of data.

Pioneering users of FEA for the prediction of mechanical and thermal properties, Celestion was the first loudspeaker manufacturer to use FEA for vibro-acoustic modelling and to predict magnetic inductance, subsequently combining these results with magneto-static modelling to provide a complete, voltage-coupled model.

Such innovations empower the Celestion team to take new product concepts and make finite element models of their electrical, mechanical and acoustical properties, combining these to create a ‘Virtual Prototype’. This advanced technique builds greater accuracy, flexibility and creativity into the development process, ensuring each new design is fully FEA-optimised to meet its performance brief.
The development process is dramatically enhanced by the ability to produce prototypes and sample runs on site. The Ipswich, UK design headquarters is equipped with a full production line plus all the machinery required to build short runs for testing, measurement, approval and production engineering.

Celestion engineers make extensive use of industry-standard measurement tools such as the Klippel® Distortion Analyser, measuring actual physical prototypes to verify the results achieved in FEA modelling. The system provides detailed analysis of motor design, voice coil alignment and cone suspension. By bringing these processes together in one place, the Celestion team is fully resourced to develop sound reinforcement loudspeaker and compression driver solutions that match and exceed the performance and cost requirements of an impressive list of systems builders.

Test resources include a hemi-anechoic chamber which provides a reflection-free environment for the precision measurement of key physical properties including frequency response and sound pressure level. Additionally, a set of plane wave tubes is located in the development laboratory for the further measurement of compression drivers. Alongside scientific testing facilities, Celestion has also created an exceptional analytical listening environment designed by the world-renowned Philip Newell. Here, new loudspeaker designs can be auditioned and compared in an acoustically neutral listening space. Throughout the development process a new product is subject to a rigorous testing regime enabling Celestion to confidently claim that each product is consistently capable of delivering the same high quality and trouble-free performance now and for years to come.
Celestion is part of the Gold Peak group with an annual turnover of more than US $1 Billion. Manufacturing takes place at our own, ISO9000 and ISO14000-accredited, 30,000m$^2$ facility where more than 1400 highly-trained employees share a singular commitment to quality.

Here, modern production lines enable Celestion to achieve exceptional consistency and productivity. In addition, the manufacturing facility replicates the Ipswich HQ test and listening facilities, incorporating its own hemi-anechoic chamber and acoustically neutral listening room, and industry-standard measurement equipment. This ensures the highest degree of accuracy from design inception right through to final manufacture.

With warehousing facilities in Europe, China and on the east and west coasts of the US, Celestion customers enjoy efficient logistics and day-to-day contact with local account managers based in all major territories. Thanks to the streamlined integration of research and development, manufacturing and logistics operations, Celestion delivers an unrivalled combination of product performance, service and value.
CIRCUMFERENTIALLY AXIAPERIODIC DIAPHRAGM: AXI SECTION

Central to the groundbreaking performance of the Axi2050 is a heavily sculpted, circumferentially AxiPeriodic annular titanium diaphragm. Its unique periodically symmetrical curved elements allow both the large diameter necessary to reproduce a wide frequency band and the low mass required for higher efficiency, while also reducing the number of vibration modes in the critical listening band for a very low distortion performance. The geometry allows the shape of the mechanical modes to be tailored so they do not couple with the acoustic modes, so there are no large resonance peaks.

MAXIMUM MODAL SUPPRESSION

A number of models in Celestion’s range of compression drivers make use of the groundbreaking MMS™ (Maximum Modal Suppression) phase plug design. Applying advanced mathematical analysis to the motion of a curved diaphragm, Celestion’s Group Research team developed a new method for calculating the width and position of the slots used in a phase plug. Building on long-established technology, this patented design significantly reduces the occurrence of unwanted resonances in the cavity between the diaphragm and the phase plug itself. The result is greater modal suppression and reduced air non-linearity. The benefit is a better time domain response and much lower distortion than the existing industry standard.

DEMODULATION RINGS

Many LF speakers in the Celestion range as well as the FTX coaxial drivers feature either one or two demodulation rings. Commonly made from aluminium, these conductors are an intrinsic part of the magnet assembly employed to substantially reduce both the harmonic and intermodulation distortion associated with voice coil displacement. They also act to make the variation of system inductances more linear as input current varies, which noticeably improves distortion performance.

A copper sleeve added to the pole piece of midrange and compression drivers has a similar effect, reducing inductive rise for improved HF performance.
**SOUND CASTLES**

Celestion’s highly successful Sound Castle™ clamping system features on many of our most successful compression drivers. It was developed to ensure an even clamping pressure on the diaphragm surround, reducing distortion while simplifying maintenance in the field. They also allow the full internal volume of the rear cover to act as a loading chamber for the diaphragm, resulting in superior lower mid-band response. The recently introduced, next-generation “soft clamping” Sound Castle assembly reduces diaphragm stress to a greater degree which cuts distortion still further and ensures an even more reliable performance.

**DEEP DRAWN DIAPHRAGM**

Working together with the MMS phase plug the “deep-drawn” titanium diaphragm has been manufactured with a taller dome shape to improve stiffness. The deep-drawn diaphragm exhibits first modal break up around 15 kHz, compared to a typical compression driver diaphragm which starts to break up in the 8-10 kHz range. The higher threshold frequency of the diaphragm avoids the break-up within the critical mid-range listening band that is associated with lower profile diaphragms, meaning greater clarity of performance with much less distortion.

**COMMON MAGNET MOTOR**

The FTX coaxial drivers feature fully combined Low and High Frequency components powered by a Common Magnet Motor Assembly, where the same ferrite magnet is used to drive both elements. This precision-designed magnet assembly has been optimised using finite element analysis techniques so that it distributes magnetic flux to both LF and HF voice coil gaps in the most efficient way possible, to extract optimum performance from the system.

This design brings the voice coils and hence the acoustic centres of the two components closer together compared to those of a conventional coaxial driver. It delivers further improvements in signal coherence and time alignment for more natural sounding audio reproduction. The use of a single magnet assembly also means lighter weight and a profile that is more compact than conventional coaxial designs.

**DUAL MAGNET MOTOR**

A secondary magnet is employed within the assembly to increase the overall motor efficiency. This results in a measurable increase in B1, enabling higher sensitivity models to be produced where the application demands, without needing to significantly increase overall magnet assembly size and weight.
INTEGRATED HF WAVEGUIDE
The specialised dustcap with integrated waveguide featured on the AN series compact array drivers deliver greater dispersion to higher frequencies than many equivalent compact drivers. This is one of the features of the AN drivers that facilitates closer coupling when using multiple drivers, meaning these drivers are particularly suited to use in controlled wavefront (beam steering) column arrays.

LOW MASS COIL REINFORCEMENT
In general for LF speakers there's a compromise made between high output sensitivity and long Xmax. Longer throw drivers tend to have lower sensitivity. Higher sensitivity drivers tend to have a shorter throw. Improving the stiffness of the voice coil without adding to the moving mass by any meaningful amount, enables the overall loudspeaker sensitivity to be increased, while maintaining a longer Xmax than would otherwise be possible.

BALANCED AIRFLOW VENTING
Balanced Airflow Venting (BAV) builds on Celestion's principles of dynamic heat dispersion for enhanced cooling. Strategically sized and positioned airflow channels are located in the magnet structure to produce a balanced flow around the voice coil, as the air is pumped by the suspension and dust cap. This rapidly takes the heat away from the magnet assembly, actively cooling the system and counteracting the effects of thermal compression.

OPTIMISED SUSPENSION SYSTEMS
The inherent shape of the voice coil suspension has a direct effect on the linear excursion of the cone. This can sometimes be a cause of non-linearity in driver performance.

Phase-matching double suspension systems, placing the two individual suspensions in opposing polarities, enables the removal of the non-linearity. The result is a much more balanced and symmetrical cone motion, hence lower distortion.
HIGH TEMPERATURE VOICE COILS

Celestion uses a range of voice coil winding techniques to achieve a number of performance advantages:

- Greater motor symmetry: even for large diameter, large voice coil devices
- More effective cooling, preventing sensitivity loss through thermal compression
- Maximised motor strength.

Inside/Outside coils are wound on both the inside and outside of the former. This is conducive to greater Bl symmetry and by effectively doubling the potential heat-dissipation surface area greatly improves cooling.

A split-wound voice coil, (together with optimised magnet assembly) has been utilised utilised in the long excursion CN1845MD to reduce the slope of the associated Bl(x) curve, creating a broader, flatter plateau in the central region, where cone and coil are close to rest. The shallower slope has the effect of reducing DC offset: performance instability in the position where the speaker does the greatest amount of work. The benefits are lower distortion and overall increased excursion.

Multi-layer voice coils have the coil wire wound in multiple layers around the same side of the voice coil former bobbin. This effectively increases the length of wire within the magnet gap to maximise the speaker’s motor strength. The result is a higher Bl from a compact magnet assembly.

APPLICATION-SPECIFIC CONE SURROUNDS

For low excursion designs, a environmentally robust, high temperature foam surround provides a good match to the impedance of the cone, ensuring sound waves are not reflected back along the cone surface. It also maintains flexibility over a wide temperature range.

Elastomer surrounds deliver a lower resonance for enhanced low frequency performance, with greater stability at extremes of excursion for very long throw applications.

INVERTED DUST CAP

For horn-loaded midrange applications, the inverted dust cap enables OEM designers to position a phase plug much closer into the cone, minimising distortion by significantly reducing the possibility of destructive interference.
AXI

Wide bandwidth, AxiPeriodic driver
Axi2050
2-inch exit, neodymium magnet, wide bandwidth AxiPeriodic driver

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

- **Measured - Plane Wave Tube**
  - Frequency (Hz)
  - Impedance (Ω)
  - Sound Pressure (dB)
  - 20 kHz
  - 10 kHz
  - 5 kHz
  - 2 kHz
  - 1 kHz
  - 500 Hz
  - 200 Hz
  - 100 Hz
  - 50 Hz
  - 20 Hz

- **Measured - Seas 30 Horn**
  - Frequency (Hz)
  - Impedance (Ω)
  - Sound Pressure (dB)
  - 20 kHz
  - 10 kHz
  - 5 kHz
  - 2 kHz
  - 1 kHz
  - 500 Hz
  - 200 Hz
  - 100 Hz
  - 50 Hz
  - 20 Hz

**GENERAL SPECIFICATIONS**

- **Power rating**: 150Wrms (AES standard)
- **Continuous power rating**: 300W
- **Nominal impedance**: 8Ω
- **Sensitivity**: 108dB
- **Frequency range**: 300-20kHz
- **Voice coil diameter**: 125mm/5in
- **Voice coil material**: Aluminium
- **Magnet type**: Neodymium
- **Diaphragm material**: Titanium
- **Surround material**: Integrated

**MOUNTING INFORMATION**

- **Width**: 198mm/7.8in
- **Depth**: 111mm/4.4in
- **Weight**: 7.5kg/16.5lb
- **Fitting**: Flange (4 x M6 holes on 102mm/4in PCD)
- **Throat exit**: 50mm/2in

**PACKED DIMENSIONS & WEIGHT**

- **Single pack size (WxDxH)**: 300mm x 300mm x 165mm
- **Single pack weight**: 8.2kg/18.1lb

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1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Handling is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using compatible horn, in 2m anechoic environment.
### HF NEO

Neodymium magnet compression drivers

<table>
<thead>
<tr>
<th>Magnet Type</th>
<th>Voice Coil Diameter</th>
<th>Throat Exit</th>
<th>Mounting Type</th>
<th>Diaphragm Material</th>
<th>Power Rating*</th>
<th>Impedance</th>
<th>Sensitivity</th>
<th>Frequency Range</th>
<th>Min Crossover Frequency</th>
<th>Unit Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDX20-3000</td>
<td>Neodymium 75mm/3in</td>
<td>2in/50mm</td>
<td>Flange</td>
<td>Titanium</td>
<td>75Wms</td>
<td>8/16Ω</td>
<td>107dB</td>
<td>500-20,000Hz</td>
<td>800Hz</td>
<td>2.1kg/4.4lb</td>
</tr>
<tr>
<td>CDX14-3050</td>
<td>Neodymium 75mm/3in</td>
<td>1.4in/35mm</td>
<td>Flange</td>
<td>Titanium</td>
<td>75Wms</td>
<td>8/16Ω</td>
<td>106.5dB</td>
<td>500-20,000Hz</td>
<td>1,000Hz</td>
<td>1.65kg/3.7lb</td>
</tr>
<tr>
<td>CDX14-3040</td>
<td>Neodymium 75mm/3in</td>
<td>1.4in/35mm</td>
<td>Flange</td>
<td>Titanium</td>
<td>75Wms</td>
<td>8/16Ω</td>
<td>106.5dB</td>
<td>500-20,000Hz</td>
<td>1,000Hz</td>
<td>1.4kg/3.1lb</td>
</tr>
<tr>
<td>CDX14-2420</td>
<td>Neodymium 60mm/2.4in</td>
<td>1.4in/35mm</td>
<td>Flange</td>
<td>Titanium</td>
<td>70Wms</td>
<td>8/16Ω</td>
<td>106.5dB</td>
<td>800-20,000Hz</td>
<td>1,200Hz</td>
<td>1.5kg/3.3lb</td>
</tr>
<tr>
<td>CDX1-1720</td>
<td>Neodymium 44mm/1.75in</td>
<td>1in/25mm</td>
<td>Flange</td>
<td>Titanium</td>
<td>50Wms</td>
<td>8/16Ω</td>
<td>107dB</td>
<td>800-20,000Hz</td>
<td>1,500Hz</td>
<td>0.65kg/1.4lb</td>
</tr>
<tr>
<td>CDX1-1732</td>
<td>Neodymium 44mm/1.75in</td>
<td>1in/25mm</td>
<td>Flange</td>
<td>Polyimide</td>
<td>60Wms</td>
<td>8Ω</td>
<td>110dB</td>
<td>1,000-20,000Hz</td>
<td>2,000Hz</td>
<td>0.65kg/1.4lb</td>
</tr>
<tr>
<td>CDX1-1730</td>
<td>Neodymium 44mm/1.75in</td>
<td>1in/25mm</td>
<td>Flange</td>
<td>PETP film</td>
<td>40Wms</td>
<td>8/16Ω</td>
<td>110dB</td>
<td>1,200-20,000Hz</td>
<td>2,200Hz</td>
<td>0.65kg/1.4lb</td>
</tr>
<tr>
<td>CDX1-1731</td>
<td>Neodymium 44mm/1.75in</td>
<td>1in/25mm</td>
<td>Screw</td>
<td>PETP film</td>
<td>40Wms</td>
<td>8/16Ω</td>
<td>110dB</td>
<td>1,200-20,000Hz</td>
<td>2,200Hz</td>
<td>0.65kg/1.4lb</td>
</tr>
<tr>
<td>CDX1-1430</td>
<td>Neodymium 35mm/1.4in</td>
<td>1in/25mm</td>
<td>Flange</td>
<td>Aluminium</td>
<td>50Wms</td>
<td>8Ω</td>
<td>108dB</td>
<td>2,000-20,000Hz</td>
<td>2,500Hz</td>
<td>0.47kg/1.0lb</td>
</tr>
<tr>
<td>CDX1-1425</td>
<td>Neodymium 35mm/1.4in</td>
<td>1in/25mm</td>
<td>Flange</td>
<td>Aluminium</td>
<td>25Wms</td>
<td>8/16Ω</td>
<td>108dB</td>
<td>2,000-20,000Hz</td>
<td>2,500Hz</td>
<td>0.39kg/0.9lb</td>
</tr>
<tr>
<td>CDX1-1415</td>
<td>Neodymium 35mm/1.4in</td>
<td>1in/25mm</td>
<td>Flange</td>
<td>Aluminium</td>
<td>20Wms</td>
<td>8Ω</td>
<td>106dB</td>
<td>2,000-20,000Hz</td>
<td>2,500Hz</td>
<td>0.25kg/0.6lb</td>
</tr>
<tr>
<td>CDX07-1075</td>
<td>Neodymium 25mm/1in</td>
<td>19mm/0.8in</td>
<td>Flange</td>
<td>Polyimide</td>
<td>15Wms</td>
<td>8Ω</td>
<td>109dB</td>
<td>1,500-18,000Hz</td>
<td>2,500Hz</td>
<td>0.16kg/0.35lb</td>
</tr>
</tbody>
</table>

*AES Standard*
CDX20-3000
2-inch exit neodymium magnet compression driver

75Wrms
(AES standard) power rating

107dB
sensitivity

3-inch edgewound copper clad aluminium voice coil

- 800Hz recommended min. crossover freq (12dB/oct)
- Maximum modal suppression phase plug
- Deep-drawn titanium diaphragm with polyimide surround

GENERAL SPECIFICATIONS

Power rating - 75Wrms
Continuous power rating - 150W
Nominal impedance - 8Ω
Sensitivity - 107dB
Frequency range - 500-20,000Hz
Recommended min. crossover (12dB/oct) - 800Hz
Magnet type - Neodymium
Voice coil diameter - 75mm/3in
Voice coil material - Edgewound copper clad aluminium
Diaphragm material - Titanium
Surround material - Polyimide

MOUNTING INFORMATION

Width - 125mm/5in
Depth - 94mm/3.7in
Unit Weight - 2kg/4.4lb
Fitting - Flange (4 x M6 holes on 102mm/4in PCD)
Throat exit - 50mm/2in

PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) - 140mm x 135mm x 112mm
Single pack weight - 2.4kg/5.3lb
Multi pack qty - 6
Multi pack size (WxDxH) - 500mm x 365mm x 145mm
Multi pack weight - 13.5kg/29.7lb

REPAIR KITS

T5526 - Diaphragm repair kit (8Ω)

FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.
Also available in 16Ω, data available on request.
**GENERAL SPECIFICATIONS**

- **Power rating**: 75Wrms (AES standard)  
- **Sensitivity**: 106.5dB  
- **Frequency range**: 500-20,000Hz  
- **Recommended min. crossover freq (12dB/oct)**: 1000Hz  
- **Magnet type**: Neodymium  
- **Voice coil diameter**: 75mm/3in  
- **Voice coil material**: Edgewound copper clad aluminium  
- **Diaphragm material**: Titanium  
- **Surround material**: Polyimide

**POWER RATING**

- **Continuous power rating**: 150W  
- **Nominal impedance**: 8Ω

**SENSITIVITY**

- **Sensitivity**: 106.5dB

**FREQUENCY RANGE**

- **Frequency range**: 500-20,000Hz

**RECOMMENDED CROSSOVER**

- **Recommended min. crossover (12dB/oct)**: 1000Hz

**MOUNTING INFORMATION**

- **Width**: 125mm/5in  
- **Depth**: 56mm/2.2in  
- **Unit Weight**: 1.7kg/3.7lb  
- **Fitting**: Flange (4 x M6 holes on 102mm/4in PCD)  
- **Throat exit**: 35mm/1.4in

**PACKED DIMENSIONS & WEIGHT**

- **Single pack size (WxDxH)**: 170mm x 140mm x 75mm  
- **Single pack weight**: 2.4kg/5.3lb  
- **Multi pack size**: 6 x 170mm x 140mm x 75mm  
- **Multi pack weight**: 9.6kg/21.2lb

**REPAIR KITS**

- **Diaphragm repair kit (8Ω)**: T5526  
- **Diaphragm repair kit (16Ω)**: T5538

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1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.  
2. Continuous Power Rating is defined as 3dB greater than the AES rating.  
3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.  

Also available in 16Ω, data available on request.
CDX14-3040
1.4-inch exit neodymium magnet compression driver

75Wrms (AES standard) power rating
106.5dB sensitivity
3-inch edgewound copper clad aluminium voice coil

• 1,000Hz recommended min. crossover freq (12dB/oct)
• Single piece titanium diaphragm and surround

GENERAL SPECIFICATIONS
Power rating1 ........................................... 75Wrms
Continuous power rating2 ............................. 150W
Nominal impedance ................................. 8Ω
Sensitivity3 ..................................................... 106.5dB
Frequency range ...................................... 500-20,000Hz
Recommended min. crossover (12dB/oct) ...... 1,000Hz
Magnet type ................................................. Neodymium
Voice coil diameter .................................... 75mm/3in
Voice coil material ...................................... Edgewound copper clad aluminium
Diaphragm material ................................. Titanium
Surround material ....................................... Titanium

MOUNTING INFORMATION
Width .................................................... 135mm/5.3in
Depth ..................................................... 68mm/2.7in
Unit Weight .............................................. 1.4kg/3.1lb
Fitting ................................................... Flange (4 x M6 holes on 102mm/4in PCD)
Throat exit ............................................... 35mm/1.4in

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) ....................... 170mm x 140mm x 75mm
......................................................... 6.7in x 5.5in x 3in
Single pack weight ................................ 5.1kg/11.2lb

REPAIR KITS
T6509 .............................................. Diaphragm repair kit (8Ω)

FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2n anechoic environment.

Also available in 16Ω, data available on request.
CDX14-2420
1.4-inch exit neodymium magnet compression driver

70Wrms (AES standard) power rating
106.5dB sensitivity
2.4-inch edgewound copper clad aluminium voice coil

- 1,200Hz recommended min. crossover freq (12dB/oct)
- Maximum modal suppression phase plug
- Deep-drawn titanium diaphragm with polyimide surround

GENERAL SPECIFICATIONS
Power rating \(^1\) ........................................ 70Wrms
Continuous power rating \(^2\) .......................... 140W
Nominal impedance ...................................... 8Ω
Sensitivity \(^3\) .............................................. 106.5dB
Frequency range ...................................... 600-20,000Hz
Recommended min. crossover (12dB/oct) ....... 1,200Hz
Magnet type ............................................. Neodymium
Voice coil diameter ................................. 60mm/2.4in
Voice coil material, Edgewound copper clad aluminium
Diaphragm material ...................................... Titanium
Surround material ...................................... Polyimide

MOUNTING INFORMATION
Width ...................................................... 116mm/4.6in
Depth ..................................................... 56mm/2.2in
Unit Weight ............................................. 1.5kg/3.3lb
Fitting ................................................. Flange (4 x M6 holes on 102mm/4in PCD)
Throat exit .............................................. 35mm/1.4in

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) ......................... 170mm x 140mm x 75mm
........................................ 6.7in x 5.5in x 3in
Single pack weight .................................. 1.8kg/3.9lb
Multi pack qty ........................................ 6
Multi pack size (WxDxH) ......................... 500mm x 365mm x 90mm
........................................ 19.7in x 14.4in x 3.5in
Multi pack weight .................................. 11.5kg/25.3lb

REPAIR KITS
T6510 ............................................. Diaphragm repair kit (8Ω)
T5548 ............................................. Diaphragm repair kit (16Ω)

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1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.

Also available in 16Ω, data available on request.
CDX1-1720
1-inch exit neodymium magnet compression driver

50Wrms (AES standard) power rating
107dB sensitivity
1.75-inch edgewound copper clad aluminium voice coil

- 1,500Hz recommended min. crossover freq (12dB/oct)
- Maximum modal suppression phase plug
- Deep-drawn titanium diaphragm with polyimide surround

GENERAL SPECIFICATIONS
Power rating1 50Wrms
Continuous power rating2 100W
Nominal impedance 8Ω
Sensitivity3 107dB
Frequency range 800-20,000Hz
Recommended min. crossover (12dB/oct) 1,500Hz
Magnet type Neodymium
Voice coil diameter 44mm/1.75in
Voice coil material Edgewound copper clad aluminium
Diaphragm material Titanium
Surround material Polyimide

MOUNTING INFORMATION
Width 88.5mm/3.48in (max)
Depth 55mm/2.2in
Unit Weight 0.65kg/1.4lb
Fitting Flange (4 x M6 holes on 76mm/3in PCD)
Throat exit 25mm/1in

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) 90mm x 90mm x 60mm
Single pack weight 0.75kg/1.7lb
Multi pack qty 16
Multi pack size (WxDxH) 500mm x 485mm x 110mm
Multi pack weight 11.2kg/24.9lb

HORNS & REPAIR KITS
T555 Diaphragm repair kit (8Ω)
T5359 H1-9040P Horn
T5134 H1-7050 'No Bell' Horn

FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment. Also available in 16Ω, data available on request.
CDX1-1732
1-inch exit neodymium magnet compression driver

60Wrms
(AES standard)
power rating

110dB
sensitivity

1.75-inch edgewound copper clad aluminium voice coil

- 2,000Hz recommended min. crossover freq (12dB/oct)
- Single piece polyimide diaphragm and surround
- Sound Castle diaphragm assembly

**GENERAL SPECIFICATIONS**

- Power rating: 60Wrms (AES standard)
- Continuous power rating: 100W
- Nominal impedance: 8Ω
- Sensitivity: 110dB
- Frequency range: 1,000-20,000Hz
- Recommended min. crossover (12dB/oct): 2,000Hz
- Magnet type: Neodymium
- Voice coil diameter: 44mm/1.75in
- Voice coil material: Edgewound copper clad aluminium
- Diaphragm material: Polyimide
- Surround material: Polyimide

**MOUNTING INFORMATION**

- Width: 88.5mm/3.48in (max)
- Depth: 55mm/2.2in
- Unit Weight: 0.65kg/1.4lb
- Fitting: Flange (4 x M6 holes on 76mm/3in PCD)
- Throat exit: 25mm/1in

**PACKED DIMENSIONS & WEIGHT**

- Multi pack qty: 16
- Multi pack size (WxDxH): 500mm x 485mm x 110mm
- Multi pack weight: 11.2kg/24.9lb

**HORNS & REPAIR KITS**

- T5572: Diaphragm repair kit (80)
- T5359: H1-9040P Horn
- T5134: H1-7050 'No Bell' Horn

---

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2in anechoic environment.
CDX1-1730
CDX1-1731
1-inch exit neodymium magnet compression driver

<table>
<thead>
<tr>
<th>40Wrms (AES standard) power rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>110dB sensitivity</td>
</tr>
<tr>
<td>1.75-inch edgewound copper clad aluminium voice coil</td>
</tr>
</tbody>
</table>

- 2,200Hz recommended min. crossover freq (12dB/oct)
- Single piece PETP film diaphragm and surround
- Sound Castle diaphragm assembly
- Flange (CDX1-1730) and screw (CDX1-1731) fitting versions available

### GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power rating</td>
<td>40Wrms</td>
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<tr>
<td>Continuous power rating</td>
<td>80W</td>
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<tr>
<td>Nominal impedance</td>
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</tr>
<tr>
<td>Sensitivity</td>
<td>110dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>1,200-20,000Hz</td>
</tr>
<tr>
<td>Recommended min. crossover (12dB/oct)</td>
<td>2,200Hz</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Neodymium</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>44mm/1.75in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Edgewound copper clad aluminium PETP film</td>
</tr>
<tr>
<td>Diaphragm material</td>
<td>PETP film</td>
</tr>
<tr>
<td>Surround material</td>
<td>PETP film</td>
</tr>
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</table>

### MOUNTING INFORMATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>88.5mm/3.48in (max)</td>
</tr>
<tr>
<td>Depth</td>
<td>55mm/2.2in</td>
</tr>
<tr>
<td>Unit Weight</td>
<td>0.65kg/1.4lb</td>
</tr>
<tr>
<td>Fitting (1730)</td>
<td>Flange (4 x M6 holes on 76mm/3in PCD)</td>
</tr>
<tr>
<td>Fitting (1731)</td>
<td>Screw (35mm/1.38in diameter)</td>
</tr>
<tr>
<td>Throat exit</td>
<td>25mm/1in</td>
</tr>
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</table>

### PACKED DIMENSIONS & WEIGHT

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single pack size</td>
<td>90mm x 90mm x 60mm</td>
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<tr>
<td>Single pack weight</td>
<td>0.75kg/1.7lb</td>
</tr>
<tr>
<td>Multi pack qty</td>
<td>16</td>
</tr>
<tr>
<td>Multi pack size</td>
<td>500mm x 485mm x 110mm</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>11.2kg/24.9lb</td>
</tr>
</tbody>
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### HORNS & REPAIR KITS

<table>
<thead>
<tr>
<th>Horn Kit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T5510</td>
<td>Diaphragm repair kit (8G)</td>
</tr>
<tr>
<td>T5523</td>
<td>Diaphragm repair kit (16G)</td>
</tr>
<tr>
<td>T5359</td>
<td>H1-9060P Horn</td>
</tr>
<tr>
<td>T5134</td>
<td>H1-7050 ‘No Bell’ Horn</td>
</tr>
<tr>
<td>T5951</td>
<td>H1SC-9050 Horn (screw)</td>
</tr>
<tr>
<td>T5952</td>
<td>H1SC-7050 Horn (screw)</td>
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<table>
<thead>
<tr>
<th>Frequency Response and Impedance Curves</th>
</tr>
</thead>
<tbody>
<tr>
<td>(dB) Sound Pressure</td>
</tr>
<tr>
<td>---------------------</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>10</td>
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<td>20</td>
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<td>40</td>
</tr>
<tr>
<td>50</td>
</tr>
<tr>
<td>60</td>
</tr>
<tr>
<td>70</td>
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</table>

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Measured - Plane Wave Tube</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>160</td>
</tr>
<tr>
<td>50</td>
<td>150</td>
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<tr>
<td>100</td>
<td>140</td>
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<tr>
<td>200</td>
<td>130</td>
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<tr>
<td>500</td>
<td>120</td>
</tr>
<tr>
<td>1k</td>
<td>110</td>
</tr>
<tr>
<td>2k</td>
<td>100</td>
</tr>
<tr>
<td>5k</td>
<td>90</td>
</tr>
<tr>
<td>10k</td>
<td>80</td>
</tr>
<tr>
<td>20k</td>
<td>70</td>
</tr>
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<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Measured - Exponential Horn 90° x 40° radiation pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>120</td>
</tr>
<tr>
<td>50</td>
<td>110</td>
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<tr>
<td>100</td>
<td>100</td>
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<tr>
<td>200</td>
<td>90</td>
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<tr>
<td>500</td>
<td>80</td>
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<td>1k</td>
<td>70</td>
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<tr>
<td>2k</td>
<td>60</td>
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<tr>
<td>5k</td>
<td>50</td>
</tr>
<tr>
<td>10k</td>
<td>40</td>
</tr>
<tr>
<td>20k</td>
<td>30</td>
</tr>
</tbody>
</table>

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.
Also available in 16Ω, data available on request.
CDX1-1430
1-inch exit neodymium magnet compression driver

50Wrms
(AES standard) power rating

108dB
sensitivity

1.4-inch
copper clad aluminium
voice coil

- 2,500Hz recommended min. crossover freq (12dB/oct)
- Aluminium diaphragm with elastomer surround
- Copper inductance sleeve for improved HF performance

GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power rating</td>
<td>50Wrms</td>
</tr>
<tr>
<td>Continuous power rating</td>
<td>100W</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>108dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>2,000-20,000Hz</td>
</tr>
<tr>
<td>Recommended min. crossover (12dB/oct)</td>
<td>2,500Hz</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Neodymium</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>35mm/1.4in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Copper clad aluminium</td>
</tr>
<tr>
<td>Diaphragm material</td>
<td>Aluminium</td>
</tr>
<tr>
<td>Surround material</td>
<td>Elastomer</td>
</tr>
</tbody>
</table>

MOUNTING INFORMATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>90mm/3.5in</td>
</tr>
<tr>
<td>Depth</td>
<td>58mm/2.3in</td>
</tr>
<tr>
<td>Unit Weight</td>
<td>0.47kg/1lb</td>
</tr>
<tr>
<td>Fitting</td>
<td>Flange (2 x M6 holes on 76mm, 3.0in PCD)</td>
</tr>
<tr>
<td>Throat exit</td>
<td>25mm/1in</td>
</tr>
</tbody>
</table>

PACKED DIMENSIONS & WEIGHT

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single pack size (WxDxH)</td>
<td>90mm x 90mm x 60mm</td>
</tr>
<tr>
<td></td>
<td>3.5in x 3.5in x 2.4in</td>
</tr>
<tr>
<td>Single pack weight</td>
<td>0.6kg/1.3lb</td>
</tr>
<tr>
<td>Multi pack qty</td>
<td>24</td>
</tr>
<tr>
<td>Multi pack size (WxDxH)</td>
<td>345mm x 370mm x 243mm</td>
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<tr>
<td></td>
<td>13.6in x 14.6in x 9.6in</td>
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<tr>
<td>Multi pack weight</td>
<td>12.5kg/28lb</td>
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HORNS & REPAIR KITS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>T5503</td>
<td>Diaphragm repair kit (60)</td>
</tr>
<tr>
<td>T5359</td>
<td>H1-9040P Horn</td>
</tr>
<tr>
<td>T5134</td>
<td>H1-7050 ‘No Bell’ Horn</td>
</tr>
</tbody>
</table>

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.

FREQUENCY RESPONSE AND IMPEDANCE CURVES

(DB) Sound Pressure vs Frequency (Hz)

Impedance (Ω) vs Frequency (Hz)

Measured - Plane Wave Tube

Measured - Exponential Horn 90° x 40° radiation pattern
CDX1-1425

1-inch exit neodymium magnet compression driver

25Wrms
(AES standard)
power rating

108dB
sensitivity

1.4-inch
copper clad aluminium
voice coil

- 2,500Hz recommended min. crossover freq (12dB/oct)
- Aluminium diaphragm with elastomer surround
- Copper inductance sleeve for improved HF performance

GENERAL SPECIFICATIONS

- Power rating¹: 25Wrms
- Continuous power rating²: 50W
- Nominal impedance: 8Ω
- Sensitivity: 108dB
- Frequency range: 2,000-20,000Hz
- Recommended min. crossover (12dB/oct): 2,500Hz
- Magnet type: Neodymium
- Voice coil diameter: 35mm/1.4in
- Voice coil material: Copper clad aluminium
- Diaphragm material: Aluminium
- Surround material: Elastomer

MOUNTING INFORMATION

- Width: 90mm/3.5in
- Depth: 58mm/2.3in
- Unit Weight: 0.39kg/0.9lb
- Fitting: Flange (2 x M6 holes on 76mm, 3.0in PCD)
- Throat exit: 25mm/1in

PACKED DIMENSIONS & WEIGHT

- Single pack size (WxDxH): 90mm x 90mm x 60mm
- Single pack weight: 3.5in x 3.5in x 2.4in/kg/lb
- Multi pack qty: 24
- Multi pack size (WxDxH): 250mm x 350mm x 290mm
- Multi pack weight: 9.6in x 13.8in x 11.4in/10kg/22lb

HORNS & REPAIR KITS

- T5503: Diaphragm repair kit (8Ω)
- T5542: Diaphragm repair kit (16Ω)
- T5359: H1-9040P Horn
- T5134: H1-7050 'No Bell' Horn

FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2n anechoic environment.

Also available in 16Ω, data available on request.
**CDX1-1415**

1-inch exit neodymium magnet compression driver

- **20Wrms** (AES standard) power rating
- **104dB** sensitivity
- **1.4-inch** copper clad aluminium voice coil

**GENERAL SPECIFICATIONS**

- **Power rating**: 20Wrms
- **Continuous power rating**: 40W
- **Nominal impedance**: 8Ω
- **Sensitivity**: 104dB
- **Frequency range**: 2,000-20,000Hz
- **Recommended min. crossover (12dB/oct)**: 2,500Hz
- **Magnet type**: Neodymium
- **Voice coil diameter**: 35mm/1.4in
- **Voice coil material**: Copper clad aluminium
- **Diaphragm material**: Aluminium
- **Surround material**: Elastomer

**MOUNTING INFORMATION**

- **Width**: 90mm/3.5in
- **Depth**: 57mm/2.2in
- **Unit Weight**: 0.25kg/0.6lb
- **Fitting**: Flange (2 x M6 holes on 76mm, 3.0in PCD)
- **Throat exit**: 25mm/1in

**PACKED DIMENSIONS & WEIGHT**

- **Single pack size (WxDxH)**: 90mm x 90mm x 60mm
- **Single pack weight**: 0.5kg/1.1lb
- **Multi pack qty**: 24
- **Multi pack size (WxDxH)**: 250mm x 350mm x 290mm
- **Multi pack weight**: 7kg/14.5lb

**HORNS & REPAIR KITS**

- **T5503**: Diaphragm repair kit (60)
- **T5359**: H1-9040P Horn
- **T5134**: H1-7050 'No Bell' Horn

---

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.
CDX07-1075
0.75-inch exit
neodymium magnet
compression driver

15W rms
(AES standard)
_power rating

109 dB
_sensitivity

1-inch
_copper clad
_aluminium
_voice coil

- 2,500Hz recommended min. crossover freq (12dB/oct)
- Single piece polyimide diaphragm and surround

GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Power rating</td>
<td>15W rms</td>
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<tr>
<td>Continuous power rating</td>
<td>30W</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>109dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>1,500-18,000Hz</td>
</tr>
<tr>
<td>Recommended min. crossover</td>
<td>2,500Hz</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Neodymium</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>25mm/1in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Copper clad aluminium</td>
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<td>Diaphragm material</td>
<td>Polyimide</td>
</tr>
<tr>
<td>Surround material</td>
<td>Polyimide</td>
</tr>
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</table>

MOUNTING INFORMATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>60mm/2.4in</td>
</tr>
<tr>
<td>Depth</td>
<td>35mm/1.3in</td>
</tr>
<tr>
<td>Unit Weight</td>
<td>0.16kg/0.35lb</td>
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<td>Fitting</td>
<td>Flange (2 x 4mm holes on 53mm/2.1in PCD)</td>
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<tr>
<td>Throat exit</td>
<td>19mm/0.75in</td>
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PACKED DIMENSIONS & WEIGHT

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi pack qty</td>
<td>24</td>
</tr>
<tr>
<td>Multi pack size (WxDxH)</td>
<td>300mm x 211mm x 160mm</td>
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<tr>
<td>Multi pack size (inches)</td>
<td>11.8in x 8.3in x 6.3in</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>6kg/13.2lb</td>
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</table>

FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2in anechoic environment.
HF FERRITE

Ferrite magnet compression drivers

<table>
<thead>
<tr>
<th>Magnet Type</th>
<th>Voice Coil Diameter</th>
<th>Throat Exit</th>
<th>Mounting</th>
<th>Diaphragm Material</th>
<th>Power Rating*</th>
<th>Impedance</th>
<th>Sensitivity</th>
<th>Frequency Range</th>
<th>Min Crossover Frequency</th>
<th>Unit Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDX20-3075</td>
<td>Ferrite 75mm/3in</td>
<td>2in/50mm</td>
<td>Flange</td>
<td>Titanium</td>
<td>75Wrms</td>
<td>8Ω</td>
<td>107dB</td>
<td>500-20,000Hz</td>
<td>800Hz</td>
<td>4.9kg/10.8lb</td>
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<tr>
<td>CDX20-3020</td>
<td>Ferrite 75mm/3in</td>
<td>2in/50mm</td>
<td>Flange</td>
<td>Titanium</td>
<td>100Wrms</td>
<td>8Ω</td>
<td>107dB</td>
<td>500-20,000Hz</td>
<td>800Hz</td>
<td>4.9kg/10.7lb</td>
</tr>
<tr>
<td>CDX14-3060</td>
<td>Ferrite 75mm/3in</td>
<td>1.4in/35mm</td>
<td>Flange</td>
<td>Titanium</td>
<td>75Wrms</td>
<td>8Ω</td>
<td>106.5dB</td>
<td>500-20,000Hz</td>
<td>1,000Hz</td>
<td>4.9kg/10.6lb</td>
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<td>CDX14-3030</td>
<td>Ferrite 75mm/3in</td>
<td>1.4in/35mm</td>
<td>Flange</td>
<td>Titanium</td>
<td>75Wrms</td>
<td>8Ω</td>
<td>106.5dB</td>
<td>500-20,000Hz</td>
<td>1,000Hz</td>
<td>4.9kg/10.7lb</td>
</tr>
<tr>
<td>CDX1-1740</td>
<td>Ferrite 44mm/1.75in</td>
<td>1in/25mm</td>
<td>Flange</td>
<td>Titanium</td>
<td>50Wrms</td>
<td>8Ω</td>
<td>107dB</td>
<td>800-20,000Hz</td>
<td>1,500Hz</td>
<td>2.3kg/5.1lb</td>
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<tr>
<td>CDX1-1747</td>
<td>Ferrite 44mm/1.75in</td>
<td>1in/25mm</td>
<td>Flange</td>
<td>Polyimide</td>
<td>60Wrms</td>
<td>8Ω</td>
<td>110dB</td>
<td>1,000-20,000Hz</td>
<td>2,200Hz</td>
<td>2.3kg/5.1lb</td>
</tr>
<tr>
<td>CDX1-1748</td>
<td>Ferrite 44mm/1.75in</td>
<td>1in/25mm</td>
<td>Screw</td>
<td>Polyimide</td>
<td>60Wrms</td>
<td>8Ω</td>
<td>110dB</td>
<td>1,000-20,000Hz</td>
<td>2,200Hz</td>
<td>2.3kg/5.1lb</td>
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<tr>
<td>CDX1-1742</td>
<td>Ferrite 44mm/1.75in</td>
<td>1in/25mm</td>
<td>Flange</td>
<td>Polyimide</td>
<td>50Wrms</td>
<td>8Ω</td>
<td>107dB</td>
<td>1,200-20,000Hz</td>
<td>2,200Hz</td>
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<td>Ferrite 44mm/1.75in</td>
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<td>Flange</td>
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<td>40Wrms 8/16Ω</td>
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<td>Flange</td>
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<td>CDX1-1447</td>
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<td>1in/25mm</td>
<td>Screw</td>
<td>Polyimide</td>
<td>35Wrms</td>
<td>8Ω</td>
<td>106dB</td>
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<td>Ferrite 35mm/1.4in</td>
<td>1in/25mm</td>
<td>Flange</td>
<td>PETP film</td>
<td>20Wrms 8/16Ω</td>
<td>106dB</td>
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<td>2,200Hz</td>
<td>1kg/2.2lb</td>
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<td>CDX1-1446</td>
<td>Ferrite 35mm/1.4in</td>
<td>1in/25mm</td>
<td>Screw</td>
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<td>20Wrms 8/16Ω</td>
<td>106dB</td>
<td>1,500-20,000Hz</td>
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<tr>
<td>CDX1-1010</td>
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*AES Standard
**GENERAL SPECIFICATIONS**

- **Power rating**: 75 Wrms (AES standard)
- **Sensitivity**: 107 dB
- **Magnet type**: Ferrite
- **Voice coil diameter**: 75 mm / 3 inches
- **Voice coil material**: Edgewound copper clad aluminium
- **Diaphragm material**: Titanium
- **Surround material**: Polyimide

**MOUNTING INFORMATION**

- **Width**: 180 mm / 7 inches
- **Depth**: 71 mm / 2.8 inches
- **Unit weight**: 4.9 kg / 10.8 lb
- **Fitting**: Flange (4 x M6 holes on a 102 mm / 4 inch PCD)
- **Throat exit**: 50 mm / 2 inches

**PACKED DIMENSIONS & WEIGHT**

- **Single pack size (WxDxH)**: 214 mm x 196 mm x 82 mm
- **Single pack weight**: 5.1 kg / 11.2 lb

**REPAIR KITS**

- **TS526**: Diaphragm repair kit (8Ω)

---

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on-axis at 1W, 1m, using typical horn, in 2n anechoic environment.
CDX20-3020
2-inch exit ferrite magnet compression driver

100Wrms
(AES standard)
power rating

107dB
sensitivity

3-inch
edgewound copper clad aluminium voice coil

- 600Hz recommended min. crossover freq (12dB/oct)
- Single piece titanium diaphragm and surround

FREQUENCY RESPONSE AND IMPEDANCE CURVES

<table>
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<th>Frequency (Hz)</th>
<th>Impedance (Ω)</th>
<th>Sound Pressure (dB)</th>
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<tr>
<td>20k</td>
<td>10</td>
<td>90</td>
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Measured - Plane Wave Tube

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.

GENERAL SPECIFICATIONS

Power rating 1: 100Wrms
Continuous power rating 2: 200W
Nominal impedance: 8Ω
Sensitivity: 107dB
Frequency range: 500-20,000Hz
Recommended min. crossover (12dB/oct): 600Hz
Magnet type: Ferrite
Voice coil diameter: 75mm/3in
Voice coil material: Edgewound copper clad aluminium
Diaphragm material: Titanium
Surround material: Titanium

MOUNTING INFORMATION

Width: 180mm/7in
Depth: 68mm/2.7in
Unit weight: 4.9kg/10.8lb
Fitting: Flange (4 x M6 holes on a 102mm/4in PCD)
Throat exit: 50mm/2in

PACKED DIMENSIONS & WEIGHT

Single pack size: 214mm x 196mm x 82mm
Single pack weight: 5.1kg/11.2lb

REPAIR KITS

T6509: Diaphragm repair kit (8Ω)
CDX14-3060
1.4-inch exit ferrite magnet compression driver

75Wrms
(AES standard)
power rating

106.5dB
sensitivity

3-inch
edgewound copper clad aluminium voice coil

- 1.000Hz recommended min. crossover freq (12dB/oct)
- Maximum modal suppression phase plug
- Deep-drawn titanium diaphragm with polyimide surround

GENERAL SPECIFICATIONS
Power rating .............................. 75Wrms
Continuous power rating ............... 150W
Nominal impedance .................... 8Ω
Sensitivity .............................. 106.5dB
Frequency .............................. 500-20,000Hz
Recommended min. crossover (12dB/oct) .... 1,000Hz
Magnet type .............................. Ferrite
Voice coil diameter .................... 75mm/3in
Voice coil material ........................ Edgewound copper clad aluminium
Diaphragm material ..................... Titanium
Surround material ........................ Polyimide

MOUNTING INFORMATION
Width .................................. 180mm/7in
Depth ................................... 71mm/2.8in
Unit weight ................................ 4.9kg/10.8lb
Fitting ................................ Flange (4 x M6 holes on a 102mm/4in PCD)
Throat exit ................................ 35mm/1.4in

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) ............... 214mm x 196mm x 82mm
............................................. 8.4in x 7.7in x 3.2in
Single pack weight ...................... 5.1kg/11.2lb

REPAIR KITS
TS526 .................................. Diaphragm repair kit (8Ω)

FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2n anechoic environment.
CDX14-3030
1.4-inch exit ferrite magnet compression driver

75Wrms
(AES standard)
power rating

106.5dB
sensitivity

3-inch
edgewound copper clad aluminium voice coil

- 1,000Hz recommended min. crossover freq (12dB/oct)
- Single piece titanium diaphragm and surround

FREQUENCY RESPONSE AND IMPEDANCE CURVES

GENERAL SPECIFICATIONS
Power rating: 75Wrms
Continuous power rating: 150W
Nominal impedance: 8Ω
Sensitivity: 106.5dB
Frequency range: 500-20,000Hz
Recommended min. crossover (12dB/oct): 1,000Hz
Magnet type: Ferrite
Voice coil diameter: 75mm/3in
Voice coil material: Edgewound copper clad aluminium
Diaphragm material: Titanium
Surround material: Titanium

MOUNTING INFORMATION
Width: 180mm/7in
Depth: 66mm/2.7in
Unit weight: 4.9kg/10.7lb
Fitting: Flange (4 x M6 holes on a 102mm/4in PCD)
Throat exit: 35mm/1.4in

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH): 214mm x 196mm x 82mm
Single pack weight: 5.1kg/11.2lb

REPAIR KITS
T6509: Diaphragm repair kit (8Ω)
CDX1-1740
1-inch exit ferrite magnet compression driver

50Wrms
(AES standard)
power rating

107dB
sensitivity

1.75-inch
edgewound copper clad aluminium voice coil

- 1,500Hz recommended min. crossover freq (12dB/oct)
- Maximum modal suppression phase plug
- Deep-drawn titanium diaphragm with polyimide surround

**GENERAL SPECIFICATIONS**
- Power rating: 50Wrms
- Continuous power rating: 100W
- Nominal impedance: 8Ω
- Sensitivity: 107dB
- Frequency: 800-20,000Hz
- Recommended min. crossover (12dB/oct): 1,500Hz
- Magnet type: Ferrite
- Voice coil diameter: 44mm/1.75in
- Voice coil material: Edgewound copper clad aluminium
- Diaphragm material: Titanium
- Surround material: Polyimide

**MOUNTING INFORMATION**
- Width: 120mm/4.7in
- Depth: 53mm/2.1in
- Unit weight: 2.3kg/5.1lb
- Fitting: Flange (2/3 M6 holes on 76/57mm, 3.0/2.24in PCD)
- Throat exit: 25mm/1in

**PACKED DIMENSIONS & WEIGHT**
- Multi pack qty: 6
- Multi pack size (WxDxH): 430mm x 370mm x 90mm
- Multi pack weight: 14kg/30.8lb

**HORNS & REPAIR KITS**
- T5555: Diaphragm repair kit (8Ω)
- T5359: H1-9040P Horn
- T5134: H1-7050 ‘No Bell’ Horn

---

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2n anechoic environment.
GENERAL SPECIFICATIONS

Power rating: 60W (AES standard)
Continuous power rating: 120W
Nominal impedance: 8Ω
Sensitivity: 110dB
Frequency: 1,000-20,000Hz
Recommended min. crossover (12dB/oct): 2,200Hz
Magnet type: Ferrite
Voice coil diameter: 44mm/1.75in
Voice coil material: Edgewound copper clad aluminium
Diaphragm material: Polyimide
Surround material: Polyimide

MOUNTING INFORMATION
Width: 120mm/4.7in
Depth: 53mm/2.1in
Unit weight: 2.3kg/5.1lb
Fitting (1747) Flange (2/3 M6 holes on 76/57mm, 3.0/2.24in PCD)
Fitting (1748) Screw (35mm/1.38in diameter)
Throat exit: 25mm/1in

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH): 140mm x 170mm x 70mm
Overall weight: 3kg/6.6lb
Multi pack qty: 6
Multi pack size (WxDxH): 430mm x 370mm x 90mm
Overall weight: 14kg/30.8lb

HORN & REPAIR KITS
T5572: Diaphragm repair kit (60)
T5359: H1-9040P Horn
T5134: H1-7050 ‘No Bell’ Horn
T5951: H1SC-9050 Horn (screw)
T5952: H1SC-8050 Horn (screw)

• 2,000Hz recommended min. crossover freq (12dB/oct)
• Single piece polyimide diaphragm and surround
• Sound Castle soft clamping diaphragm assembly
• Flange (CDX1-1747) and screw (CDX1-1748) fitting versions available

FREQUENCY RESPONSE AND IMPEDANCE CURVES

Measured - Exponential Horn 90° x 40° radiation pattern
Measured - Plane Wave Tube

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.
GENERAL SPECIFICATIONS

- 50Wrms (AES standard) power rating
- 107dB sensitivity
- 1.75-inch edgewound copper clad aluminium voice coil

- 2,000Hz recommended min. crossover freq (12dB/oct)
- Single piece polyimide diaphragm and surround
- Sound Castle soft clamping diaphragm assembly

MOUNTING INFORMATION

- Width: 100mm/4in
- Depth: 53.5mm/2.1in
- Unit weight: 1.4kg/3.1lb
- Fitting: Flange (2/3 M6 holes on 76/57mm, 3.0/2.24in PCD)
- Throat exit: 25mm/1in

PACKED DIMENSIONS & WEIGHT

- Single pack size (WxDxH): 140mm x 170mm x 70mm
- Single pack weight: 2kg/4.4lb
- Multi pack qty: 16
- Multi pack size (WxDxH): 495mm x 495mm x 90mm
- Multi pack weight: 26kg/57.2lb

HORNS & REPAIR KITS

- T5572: Diaphragm repair kit (8Ω)
- T5359: H1-9040P Horn
- TS134: H1-7050 ‘No Bell’ Horn

FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2n anechoic environment.
**GENERAL SPECIFICATIONS**

- **Power rating**: 40Wrms (AES standard) power rating
- **Sensitivity**: 110dB
- **Magnet type**: Ferrite
- **Voice coil diameter**: 1.75-inch edgewound copper clad aluminium voice coil

- 2,200Hz recommended min. crossover freq (12dB/oct)
- Single piece PETP diaphragm and surround
- Sound Castle diaphragm assembly
- Flange (CDX1-1745) and screw (CDX1-1746) fitting versions available

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

![Frequency Response and Impedance Curves](image)

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.

Also available in 16Ω, data available on request.

**MOUNTING INFORMATION**

- **Width**: 120mm/4.7in
- **Depth**: 56mm/2.2in
- **Unit weight**: 2.3kg/5.1lb
- **Fitting (1745)**: Flange (2/3 M6 holes on 76/57mm, 3.0/2.24in PCD) Screw (35mm/1.38in diameter) Throat exit: 25mm/1in

**PACKED DIMENSIONS & WEIGHT**

- Single pack size (WxDxH): 140mm x 170mm x 70mm
  - 5.5in x 6.7in x 2.8in
- Single pack weight: 3kg/6.6lb
- Multi pack qty: 6
- Multi pack size (WxDxH): 430mm x 370mm x 90mm
  - 16.9in x 14.6in x 3.5in
- Multi pack weight: 14kg/30.8lb

**HORNS & REPAIR KITS**

- **TS510**: Diaphragm repair kit (8Ω)
- **TS523**: Diaphragm repair kit (16Ω)
- **TS539**: H1-90QP Horn
- **TS134**: H1-7050 'No Bell' Horn
- **TS951**: H1SC-9050 Horn (screw)
- **TS952**: H1SC-8050 Horn (screw)
CDX1-1447

1-inch exit ferrite magnet compression driver

35Wrms
(AES standard) power rating

106dB
sensitivity

1.4-inch
copper clad aluminium voice coil

- 2.200Hz recommended min. crossover freq (12dB/oct)
- Single piece polyimide diaphragm and surround
- Integrated diaphragm and rear cover for ease of replacement

GENERAL SPECIFICATIONS

Power rating 1 .......................... 35Wrms
Continuous power rating 2 .................. 70W
Nominal impedance ........................................................................... 8Ω
Sensitivity 3 .................................. 106dB
Frequency .................................. 1,500-20,000Hz
Recommended min. crossover (12dB/oct) 4 .......................... 2,200Hz
Magnet type ......................... Ferrite
Voice coil diameter .................. 35mm/1.4in
Voice coil material .............. Copper clad aluminium
Diaphragm material .......... Polyimide
Surround material ............ Polyimide

MOUNTING INFORMATION

Width .................................. 90mm/3.5in
Depth .................................. 46.5mm/1.8in
Unit weight ................................ 1kg/2.2lb
Fitting .................................. Flange (4 x M6 holes on 76mm/3in PCD)
Throat exit ................................ 25mm/1in

PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) ............. 110mm x 98mm x 81mm
Single pack weight .................. 1.5kg/3.3lb
Multi pack qty ......................... 16
Multi pack size (WxDxH) ............. 495mm x 495mm x 90mm
Multi pack weight ................. 17kg/37.4lb

HORNS & REPAIR KITS

T6525 .................................. Diaphragm repair kit (8Ω)
T5359 .................................. H1-9040P Horn
T5134 .................................. H1-7050 'No Bell' Horn

FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2n anechoic environment.
**GENERAL SPECIFICATIONS**

- **Power rating**
  - 20W RMS (AES standard)
- **Continuous power rating**
  - 40W
- **Nominal impedance**
  - 8Ω
- **Sensitivity**
  - 106dB
- **Frequency**
  - 1,500-20,000Hz
- **Recommended min. crossover (12dB/oct)**
  - 2,200Hz
- **Magnet type**
  - Ferrite
- **Voice coil diameter**
  - 35mm/1.4in
- **Voice coil material**
  - Copper clad aluminium
- **Diaphragm material**
  - PETP film
- **Surround material**
  - PETP film

**MOUNTING INFORMATION**

- **Width**
  - 90mm/3.5in
- **Depth**
  - 52mm/2.1in
- **Unit weight**
  - 1kg/2.2lb
- **Fitting (1445)**
  - Flange (4 x M6 holes on 76mm/3in PCD)
- **Fitting (1446)**
  - Screw (35mm/1.38in diameter)
- **Throat exit**
  - 25mm/1in

**PACKED DIMENSIONS & WEIGHT**

- **Single pack size (WxDxH)**
  - 110mm x 98mm x 81mm
  - 4.3in x 3.9in x 3.2in
- **Multi pack qty**
  - 16
- **Multi pack size (WxDxH)**
  - 495mm x 495mm x 90mm
  - 19.5in x 19.5in x 3.5in
- **Multi pack weight**
  - 17kg/37.4lb

**HORNS & REPAIR KITS**

- **T5547**
  - Diaphragm repair kit (8Ω)
- **T5557**
  - Diaphragm repair kit (16Ω)
- **T5359**
  - H1-9050 Ferrite Horn
- **T5134**
  - H1-7050 ‘No Bell’ Horn
- **T5951**
  - H1SC-9050 Horn (screw)
- **T5952**
  - H1SC-8050 Horn (screw)

---

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2n anechoic environment.

*Also available in 16Ω, data available on request*
**CDX1-1440**

1-inch exit ferrite magnet compression driver

- 25Wrms (AES standard) power rating
- 106dB sensitivity
- 1.4-inch copper clad aluminium voice coil

- 2,200Hz recommended min. crossover freq (12dB/oct)
- Single piece Titanium diaphragm and surround
- Integrated diaphragm and rear cover for ease of replacement

**GENERAL SPECIFICATIONS**

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<tr>
<th>Specification</th>
<th>Value</th>
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<td>Recommended min. crossover (12dB/oct)</td>
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<td>Diaphragm material</td>
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<td>Surround material</td>
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**MOUNTING INFORMATION**

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<td>Unit weight</td>
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<td>Fitting</td>
<td>Flange (4 x M6 holes on 76mm/3in PCD</td>
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<tr>
<td>Throat exit</td>
<td>25mm/1in</td>
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**PACKED DIMENSIONS & WEIGHT**

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<tr>
<td>Multi pack weight</td>
<td>17kg/37.4lb</td>
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**HORNS & REPAIR KITS**

- T5580: Diaphragm repair kit (8Ω)
- T5359: H1-9040P Horn
- T5134: H1-7050 ‘No Bell’ Horn

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on-axis at 1W, 1m, using typical horn, in 2π anechoic environment.
CDX1-1010
1-inch exit ferrite magnet compression driver

15Wrms
(AES standard)
power rating

107dB
sensitivity

1-inch
copper clad aluminium voice coil

• 2,200Hz recommended min. crossover freq (12dB/oct)
• Single piece PETP diaphragm and surround

GENERAL SPECIFICATIONS
Power rating1 ........................................... 15Wrms
Continuous power rating2 ................................ 30W
Nominal impedance .................................................. 8Ω
Sensitivity3 .............................................................. 107dB
Frequency ........................................ 1,500-20,000Hz
Recommended min. crossover (12dB/oct) ................. 2,200Hz
Magnet type .......................................................... Ferrite
Voice coil diameter ............................................. 25mm/1in
Voice coil material .................................................. Copper clad aluminium
Diaphragm material ................................................ PETP film
Surround material ................................................... PETP film

MOUNTING INFORMATION
Width ................................................................. 90mm/3.5in
Depth ................................................................. 52.8mm/2.1in
Unit weight .......................................................... 0.8kg/1.8lb
Fitting ............................................................... Screw (35mm/1.38in diameter)
Throat exit .......................................................... 25mm/1in

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) ........................................ 113mm x 103mm x 72mm
Single pack weight ................................................ 4.41n x 4in x 2.8in
Multi pack qty .......................................................... 16
Multi pack size (WxDxH) ........................................... 480mm x 480mm x 75mm
Multi pack weight .................................................. 18.9in x 18.9in x 2.95in

HORNS
T5951 .......................................................... H1SC-9050 Horn
T5952 .......................................................... H1SC-7050 Horn

FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2π anechoic environment.
CDX1-1070
1-inch exit ferrite magnet compression driver

12Wrms
(AES standard)
power rating
106dB
sensitivity
1-inch
copper clad aluminium voice coil

- 2,200Hz recommended min. crossover freq (12dB/oct)
- Single piece PETP diaphragm and surround

**GENERAL SPECIFICATIONS**

- **Power rating**: 12Wrms (AES standard)
- **Continuous power rating**: 24W
- **Nominal impedance**: 8Ω
- **Sensitivity**: 106dB
- **Frequency**: 1,500-20,000Hz
- **Recommended min. crossover (12dB/oct)**: 2,200Hz
- **Magnet type**: Ferrite
- **Voice coil diameter**: 25mm/1in
- **Voice coil material**: Copper clad aluminium
- **Diaphragm material**: PETP film
- **Surround material**: PETP film

**MOUNTING INFORMATION**

- **Width**: 70mm/2.8in
- **Depth**: 50mm/2in
- **Unit weight**: 0.7kg/1.5lb
- **Fitting**: Flange (2 x M6 holes on 76mm/3in PCD)
- **Throat exit**: 25mm/1in

**PACKED DIMENSIONS & WEIGHT**

- **Pack size (WxDxH)**: 98mm x 98mm x 77mm
- **Single pack size (WxDxH)**: 3.8in x 3.8in x 3in
- **Weight**: 1kg/2.2lb

**HORNS**

- **Horns**: H1-9040P Horn
- **Horns**: H1-7050 ‘No Bell’ Horn

---

1. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m, using typical horn, in 2n anechoic environment.
**H1-7050**

**‘No Bell’**

Compression driver horn

**1-inch**

throat exit

**70° x 50°**

radiation pattern

**1.5kHz**

cut-off frequency

- Compatible for use with bolt (flange) fitted compression drivers
- Features embedded elastomer side panels that make it acoustically inert

**GENERAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horn type</td>
<td>Exponential</td>
</tr>
<tr>
<td>Radiation pattern</td>
<td>70° x 50°</td>
</tr>
<tr>
<td>Horn material</td>
<td>Cast Aluminium</td>
</tr>
<tr>
<td>Baffle cut-out</td>
<td>ø155mm/6.1in</td>
</tr>
<tr>
<td>Driver mounting detail</td>
<td>Flange: 2x M6 holes on 76mm/3in PCD</td>
</tr>
<tr>
<td>Throat exit</td>
<td>25.1mm/1in</td>
</tr>
<tr>
<td>Height</td>
<td>180mm/7.1in</td>
</tr>
<tr>
<td>Width</td>
<td>180mm/7.1in</td>
</tr>
<tr>
<td>Depth</td>
<td>90mm/3.5mm</td>
</tr>
<tr>
<td>Weight</td>
<td>0.7kg/1.5lb</td>
</tr>
</tbody>
</table>

**PACKED DIMENSIONS & WEIGHT**

<table>
<thead>
<tr>
<th>Pack Size (WxDxH)</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single pack</td>
<td>190mm x 190mm x 65mm</td>
</tr>
<tr>
<td>Single pack weight</td>
<td>1.0kg/2.2lb</td>
</tr>
<tr>
<td>Multi pack (WxDxH)</td>
<td>390mm x 390mm x 560mm</td>
</tr>
<tr>
<td>Multi pack (24) weight</td>
<td>18kg/39.6lb</td>
</tr>
</tbody>
</table>

**COMPATIBLE COMPRESSION DRIVERS**

CDX1-1747, CDX1-1742, CDX1-1740, CDX1-1745, CDX1-1732, CDX1-1730, CDX1-1720, CDX1-1447, CDX1-1445, CDX1-1440, CDX1-1430, CDX1-1425, CDX1-1415, CDX1-1070

**PERFORMANCE WITH TYPICAL COMPRESSION DRIVER**

**BEAMWIDTH & SOLID ANGLE**

- **Frequency (Hz)**
  - 2k, 3k, 4k, 5k, 6k, 7k, 8k, 9k, 10k, 20k

**DIRECTIVITY FACTOR**

- **Frequency (Hz)**
  - 2k, 3k, 4k, 5k, 6k, 7k, 8k, 9k, 10k, 16k

**HORIZONTAL POLAR & VERTICAL CONTOUR**

- **Axial Angle /°**
  - -90° to +90°

- **Frequency (Hz)**
  - 1kHz, 2kHz, 4kHz, 8kHz, 16kHz

- **Beamwidth (degrees)**
- **Solid Angle (steradians)**
- **Directivity Factor - Q**
H1-9040P
Compression driver horn

1-inch throat exit
90° x 40° radiation pattern
1.5kHz cut-off frequency

- Compatible for use with bolt (flange) fitted compression drivers
- Hard-wearing reinforced polymer

GENERAL SPECIFICATIONS
Horn type .................................. Exponential
Radiation pattern .......................... 90° x 40°
Horn material .............................. ABS
Baffle cut-out ............................... 165mm/6.5in x 260mm/10.2in
Driver mounting detail ................. Flange: 2x M6 holes on 76mm/3in PCD
Throat exit .................................. 25.1mm/1in
Height ...................................... 199mm/7.8in
Width ...................................... 318mm/12.5in
Depth ...................................... 208mm/8.2in
Weight ..................................... 0.66kg/1.45lb

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) ................. 350mm x 220mm x 230mm
................................. 13.7in x 4.7in x 4.7in
Single pack weight ....................... 1.0kg/2.2lb
Multi pack (10) size (WxDxH) .... 650mm x 500mm x 240mm
................................. 25.6in x 20in x 9.4in
Multi pack (10) weight ................. 10kg/22lb

COMPATIBLE COMPRESSION DRIVERS
CDX1-1747, CDX1-1742, CDX1-1740, CDX1-1745,
CDX1-1732, CDX1-1730, CDX1-1720, CDX1-1447,
CDX1-1445, CDX1-1440, CDX1-1430, CDX1-1425,
CDX1-1415, CDX1-1070
H1SC-8050
Compression driver horn

1-inch throat exit
80° x 50° radiation pattern
1.5kHz cut-off frequency

- Compatible for use with screw on compression drivers
- Hard-wearing reinforced ABS

GENERAL SPECIFICATIONS
Horn type: Exponential
Radiation pattern: 80° x 50°
Horn material: ABS
Baffle cut-out: ø155mm/6.1in
Driver mounting detail: Screw (35mm, 1.38in diameter)
Throat exit: 25.4mm/1in
Height: 178mm/7in
Width: 178mm/7in
Depth: 88mm/3.46in
Weight: 0.2kg/0.44lb

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH): 186mm x 186mm x 102mm
Single pack weight: 0.22kg/0.48lb

COMPATIBLE COMPRESSION DRIVERS
CDX1-1748, CDX1-1746, CDX1-1731, CDX1-1446, CDX1-1010
**GENERAL SPECIFICATIONS**

Horn type: Exponential  
Radiation pattern: 90° x 40°  
Horn material: ABS  
Baffle cut-out: 74mm/2.9in x 248mm/9.8in  
Driver mounting detail: Screw (35mm, 1.38in diameter)  
Throat exit: 25.1mm/1in  
Height: 104mm/4.1in  
Width: 296mm/11.7in  
Depth: 145mm/5.7in  
Weight: 0.23kg/0.51lb

**PACKED DIMENSIONS & WEIGHT**

Single pack size (WxDxH): 305mm x 112mm x 156mm  
Single pack weight: 0.25kg/0.55lb

**COMPATIBLE COMPRESSION DRIVERS**

CDX1-1748, CDX1-1746, CDX1-1731, CDX1-1446, CDX1-1010

**PERFORMANCE WITH TYPICAL COMPRESSION DRIVER**

**HORIZONTAL CONTOUR**

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>SPL (dB)</th>
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</thead>
<tbody>
<tr>
<td>2kHz</td>
<td>90</td>
</tr>
<tr>
<td>3kHz</td>
<td>80</td>
</tr>
<tr>
<td>4kHz</td>
<td>70</td>
</tr>
<tr>
<td>5kHz</td>
<td>60</td>
</tr>
<tr>
<td>6kHz</td>
<td>50</td>
</tr>
<tr>
<td>7kHz</td>
<td>40</td>
</tr>
<tr>
<td>8kHz</td>
<td>30</td>
</tr>
<tr>
<td>9kHz</td>
<td>20</td>
</tr>
<tr>
<td>10kHz</td>
<td>10</td>
</tr>
</tbody>
</table>

**VERTICAL CONTOUR**

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>SPL (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2kHz</td>
<td>90</td>
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<tr>
<td>3kHz</td>
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<td>4kHz</td>
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<td>6kHz</td>
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<td>7kHz</td>
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<td>8kHz</td>
<td>30</td>
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<tr>
<td>9kHz</td>
<td>20</td>
</tr>
<tr>
<td>10kHz</td>
<td>10</td>
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</table>

**BEAMWIDTH & SOLID ANGLE**

<table>
<thead>
<tr>
<th>Beamwidth (Degrees)</th>
<th>Solid Angle (Steradians)</th>
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<tbody>
<tr>
<td>0</td>
<td>12</td>
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<tr>
<td>30</td>
<td>11</td>
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<tr>
<td>60</td>
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<td>90</td>
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<td>120</td>
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<td>150</td>
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<td>180</td>
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<td>300</td>
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<tr>
<td>330</td>
<td>2</td>
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<tr>
<td>360</td>
<td>1</td>
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</table>

**DIRECTIVITY FACTOR**

<table>
<thead>
<tr>
<th>Directivity Factor</th>
<th>Q</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>2.4</td>
</tr>
<tr>
<td>2</td>
<td>2.2</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
</tr>
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<td>4</td>
<td>1.8</td>
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<td>5</td>
<td>1.6</td>
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<tr>
<td>6</td>
<td>1.4</td>
</tr>
<tr>
<td>7</td>
<td>1.2</td>
</tr>
<tr>
<td>8</td>
<td>1</td>
</tr>
</tbody>
</table>

**1-inch throat exit**

**90° x 40° radiation pattern**

**1.5kHz cut-off frequency**

- Compatible for use with screw on compression drivers
- Hard-wearing reinforced ABS
### COAXIAL

Ferrite magnet, coaxial drivers

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Diameter</th>
<th>Power Rating</th>
<th>Impedance</th>
<th>Sensitivity</th>
<th>Frequency Range</th>
<th>LF Voice Coil Diameter</th>
<th>Unit Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTX1530</td>
<td>381mm/15in</td>
<td>400Wrms</td>
<td>8Ω</td>
<td>97dB</td>
<td>40-20,000Hz</td>
<td>74mm/3in</td>
<td>6.5kg/14.3lb</td>
</tr>
<tr>
<td>FTX1225</td>
<td>305mm/12in</td>
<td>300Wrms</td>
<td>8Ω</td>
<td>97dB</td>
<td>50-20,000Hz</td>
<td>64mm/2.5in</td>
<td>5.9kg/13lb</td>
</tr>
<tr>
<td>FTX1025</td>
<td>254mm/10in</td>
<td>300Wrms</td>
<td>8Ω</td>
<td>96dB</td>
<td>60-20,000Hz</td>
<td>64mm/2.5in</td>
<td>4.5kg/9.9lb</td>
</tr>
<tr>
<td>FTX0820</td>
<td>200mm/8in</td>
<td>200Wrms</td>
<td>8Ω</td>
<td>94dB</td>
<td>70-20,000Hz</td>
<td>50mm/2in</td>
<td>4.1kg/9lb</td>
</tr>
<tr>
<td>FTX0617</td>
<td>165mm/6.5in</td>
<td>150Wrms</td>
<td>8Ω</td>
<td>92dB</td>
<td>100-20,000Hz</td>
<td>44mm/1.7in</td>
<td>3kg/6.6lb</td>
</tr>
<tr>
<td>TFX0615</td>
<td>165mm/6.5in</td>
<td>150Wrms</td>
<td>8Ω</td>
<td>94dB</td>
<td>100-20,000Hz</td>
<td>38mm/1.5in</td>
<td>2.1kg/4.6lb</td>
</tr>
<tr>
<td>TFX0512</td>
<td>125mm/5in</td>
<td>100Wrms</td>
<td>8Ω</td>
<td>92dB</td>
<td>70-20,000Hz</td>
<td>32mm/1.25in</td>
<td>2kg/4.4lb</td>
</tr>
<tr>
<td>TF1225CX</td>
<td>305mm/12in</td>
<td>250Wrms</td>
<td>8Ω</td>
<td>97dB</td>
<td>40-18,000Hz</td>
<td>64mm/2.5in</td>
<td>4.6kg/10.1lb</td>
</tr>
</tbody>
</table>

See pages 56-57 for additional performance data.
### FTX1530

**15-inch cast aluminium chassis, ferrite magnet coaxial driver**

#### GENERAL SPECIFICATIONS: LF
- Nominal diameter: 361mm/15in
- Power rating: 400Wrms
- Continuous power rating: 600W
- Nominal impedance: 8Ω
- Sensitivity: 97dB
- Frequency range: 40-4,000Hz
- Chassis type: Cast Aluminium
- Magnet type: Ferrite
- Magnet weight: 5.36kg/11.8lb
- Voice coil diameter: 75mm/3in
- Voice coil material: Edgewound copper clad aluminium
- Former material: Glass fibre
- Cone material: Kevlar loaded paper
- Surround material: Cloth-sealed
- Suspension: Single
- Xmax*: 4.4mm/0.17in
- Gap depth: 8mm/0.31in
- Voice coil winding width: 16mm/0.63in

#### SMALL SIGNAL PARAMETERS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sd</td>
<td>855.3cm²/132.57in²</td>
</tr>
<tr>
<td>Fs</td>
<td>42.5Hz</td>
</tr>
<tr>
<td>Mms</td>
<td>84.29g/2.97oz</td>
</tr>
<tr>
<td>Qms</td>
<td>3.809</td>
</tr>
<tr>
<td>Qes</td>
<td>0.297</td>
</tr>
<tr>
<td>Qts</td>
<td>0.28</td>
</tr>
<tr>
<td>Re</td>
<td>5.36Ω</td>
</tr>
<tr>
<td>VAS</td>
<td>172.07Ω/6.08ft³</td>
</tr>
<tr>
<td>BI</td>
<td>20.16Tm</td>
</tr>
<tr>
<td>Cms</td>
<td>0.17mm/N</td>
</tr>
<tr>
<td>Rms</td>
<td>5.91kg/s</td>
</tr>
<tr>
<td>Le (at 1kHz)</td>
<td>8.62mH</td>
</tr>
</tbody>
</table>

#### GENERAL SPECIFICATIONS: HF
- Power rating: 75Wrms
- Continuous power rating: 150W
- Sensitivity: 106.5dB
- Frequency range: 800-18,000Hz
- Recommended min. crossover (12dB/oct): 1,000Hz
- Voice coil diameter: 75mm/3in
- Magnet type: Dual ferrite magnet motor
- Diaphragm material: Titanium
- Surround material: Polyimide

#### MOUNTING INFORMATION
- Overall diameter: 387mm/15.24in
- Overall depth: 176mm/6.92in
- Cut-out diameter: 351mm/13.82in
- Mounting slot dimensions: 10 x 7mm/0.39 x 0.27in
- Number of mounting slots: 8
- Mounting slot PCD: 365-375mm/14.37-14.76in
- Unit weight: 6.5kg/14.3lb

#### PACKED DIMENSIONS & WEIGHT

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single pack size (WxDxH)</td>
<td>426mm x 428mm x 228mm</td>
</tr>
<tr>
<td>Single pack weight</td>
<td>16.46kg/36.3lb</td>
</tr>
<tr>
<td>Multi pack qty</td>
<td>36</td>
</tr>
<tr>
<td>Multi pack size (WxDxH)</td>
<td>1050mm x 1200mm x 950mm</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>41.34kg/91.3lb</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>26.5kg/58.8lb</td>
</tr>
</tbody>
</table>

#### 400Wrms

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power rating (AES standard)</td>
<td>400Wrms</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>97dB</td>
</tr>
</tbody>
</table>

**3-inch edgewound copper clad aluminium voice coils (LF and HF elements)**

- Ferrite magnet assembly acts as common motor for both LF and HF
- Titanium HF diaphragm
- Demodulation ring
- 90° nominal HF coverage
- HF repair kit available

---

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

![Frequency Response Curve](image)

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on-axis at 1W, 1m in an anechoic environment.
4. Xmax derived from: (voice coil winding width-gap depth)/2.
5. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
6. Continuous Power Handling is defined as 3dB greater than the AES rating.

Suggested crossover design available online at celeston.com/speakerworld
**300Wrms**
(AES standard)
Power rating
97dB
sensitivity

**2.5-inch**
edgewound copper clad aluminium voice coil (LF)

**1.75-inch**
edgewound copper clad aluminium voice coil (HF)

- Ferrite magnet assembly acts as common motor for both LF and HF
- Polyimide HF diaphragm
- Demodulation ring
- 90° nominal HF coverage
- HF repair kit available

---

**GENERAL SPECIFICATIONS: LF**

- Nominal diameter: 305mm/12in
- Power rating: 300Wrms
- Continuous power rating: 600W
- Nominal impedance: 8Ω
- Sensitivity: 97dB
- Frequency range: 50-4,000Hz
- Chassis type: Cast Aluminum
- Magnet type: Ferrite
- Magnet weight: 2.3kg/6.1lbs
- Voice coil diameter: 64mm/2.5in
- Voice coil material: Edgewound copper clad aluminum
- Former material: Glass fibre
- Cone material: Kevlar loaded paper
- Surround material: Cloth-sealed
- Suspension material: Single
- Gap depth: 8mm/0.31in
- Voice coil winding width: 16mm/0.63in

**GENERAL SPECIFICATIONS: HF**

- Power rating: 60Wrms
- Continuous power rating: 120W
- Nominal impedance: 6Ω
- Sensitivity: 104dB
- Frequency range: 1,000-16,000Hz
- Recommended min. crossover (12dB/oct): 2,000Hz
- Voice coil diameter: 45mm/1.75in
- Magnet type: Dual ferrite magnet motor
- Diaphragm material: Polyimide
- Surround material: Polyimide

**MOUNTING INFORMATION**

- Overall diameter: 318mm/12.5in
- Overall depth: 168mm/6.61in
- Cut-out diameter: 286mm/11.26in
- Mounting slot dimensions: 7.5 x 6.5mm/0.29 x 0.26in
- Number of mounting slots: 8
- Mounting slot PCD: 298-304mm/11.7-11.97in
- Unit weight: 5.9kg/13lb

**PACKED DIMENSIONS & WEIGHT**

- Single pack size (WxDxH): 364mm x 364mm x 189mm
- Single pack weight: 14.3in x 14.3in x 7.4in
- Multi pack qty: 48
- Multi pack size (WxDxH): 970mm x 1070mm x 850mm
- Multi pack weight: 38.1in x 42.1in x 33.4in
- Multi pack weight: 315kg/690lb
### GENERAL SPECIFICATIONS: LF

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal diameter</td>
<td>254mm/10in</td>
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<tr>
<td>Power rating</td>
<td>300Wrms</td>
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<tr>
<td>Continuous power rating</td>
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<td>Nominal impedance</td>
<td>8Ω</td>
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<tr>
<td>Sensitivity</td>
<td>96dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>60-5,000Hz</td>
</tr>
<tr>
<td>Chassis type</td>
<td>Cast Aluminium</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Ferrite</td>
</tr>
<tr>
<td>Magnet weight</td>
<td>1.5kg/34oz</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>64mm/2.5in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Edgewound copper clad aluminium</td>
</tr>
<tr>
<td>Former material</td>
<td>Glass fibre</td>
</tr>
<tr>
<td>Cone material</td>
<td>Kevlar loaded paper</td>
</tr>
<tr>
<td>Surround material</td>
<td>Cloth-sealed</td>
</tr>
<tr>
<td>Suspension</td>
<td>Single</td>
</tr>
<tr>
<td>Xmax</td>
<td>3mm/0.12in</td>
</tr>
<tr>
<td>Gap depth</td>
<td>8mm/0.31in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>14mm/0.55in</td>
</tr>
</tbody>
</table>

### SMALL SIGNAL PARAMETERS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Continuous power rating</td>
<td>600W</td>
</tr>
<tr>
<td>Power rating</td>
<td>300Wrms</td>
</tr>
<tr>
<td>Frequency range</td>
<td>60-5,000Hz</td>
</tr>
<tr>
<td>Chassis type</td>
<td>Cast Aluminium</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Ferrite</td>
</tr>
<tr>
<td>Magnet weight</td>
<td>1.5kg/34oz</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>64mm/2.5in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Edgewound copper clad aluminium</td>
</tr>
<tr>
<td>Former material</td>
<td>Glass fibre</td>
</tr>
<tr>
<td>Cone material</td>
<td>Kevlar loaded paper</td>
</tr>
<tr>
<td>Surround material</td>
<td>Cloth-sealed</td>
</tr>
<tr>
<td>Suspension</td>
<td>Single</td>
</tr>
<tr>
<td>Xmax</td>
<td>3mm/0.12in</td>
</tr>
<tr>
<td>Gap depth</td>
<td>8mm/0.31in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>14mm/0.55in</td>
</tr>
</tbody>
</table>

### MOUNTING INFORMATION

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall diameter</td>
<td>260mm/10.24in</td>
</tr>
<tr>
<td>Overall depth</td>
<td>113mm/4.45in</td>
</tr>
<tr>
<td>Cut-out diameter</td>
<td>234mm/9.21in</td>
</tr>
<tr>
<td>Mounting slot dimensions</td>
<td>7.5 x 6.5mm/0.29 x 0.26in</td>
</tr>
<tr>
<td>Number of mounting slots</td>
<td>8</td>
</tr>
<tr>
<td>Mounting slot PCD</td>
<td>244-247mm/9.6-9.7in</td>
</tr>
<tr>
<td>Unit weight</td>
<td>4.5kg/9.9lb</td>
</tr>
</tbody>
</table>

### PACKED DIMENSIONS & WEIGHT

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single pack size (WxDxH)</td>
<td>303mm x 303mm x 178mm</td>
</tr>
<tr>
<td>Single pack weight</td>
<td>5.2kg/11.4lb</td>
</tr>
<tr>
<td>Multi pack qty</td>
<td>32</td>
</tr>
<tr>
<td>Multi pack size (WxDxH)</td>
<td>960mm x 1070mm x 890mm</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>37.7in x 42.1in x 35in</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>175kg/205lb</td>
</tr>
</tbody>
</table>

### FREQUENCY RESPONSE AND IMPEDANCE CURVES

- Ferrite magnet assembly acts as common motor for both LF and HF
- Polyimide HF diaphragm
- Demodulation ring
- 100° nominal HF coverage
- HF repair kit available

---

**300Wrms**

(AES standard) power rating

**96dB**

sensitivity

**2.5-inch**

edgewound copper clad aluminium voice coil (LF)

**1.4-inch**

copper clad aluminium voice coil (HF)

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Power calculated on minimum impedance. Loudspeaker tested in free air.
4. Measured on axis at 1W, 1m in an anechoic environment.
5. Xmax derived from: voice coil winding width-gap depth/2.
6. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.

Suggested crossover design available online at celexton.com/speakeeworld
### GENERAL SPECIFICATIONS: LF
- **Nominal diameter**: 200mm/8in
- **Power rating**: 200Wrms
- **Continuous power rating**: 80W
- **Nominal impedance**: 8Ω
- **Sensitivity**: 94dB
- **Frequency range**: 70-5,000Hz
- **Chassis type**: Cast Aluminium
- **Magnet type**: Ferrite
- **Magnet weight**: 1.5kg/54oz
- **Voice coil diameter**: 50mm/2in
- **Voice coil material**: Edgewound copper
- **Former material**: Glass fibre
- **Cone material**: Kevlar loaded paper
- **Surround material**: Cloth-sealed
- **Impedance**: 8Ω

### SMALL SIGNAL PARAMETERS
- **Le (at 1kHz)**: 40.6mH
- **Sd.**: 226.96cm²/35.18in²
- **Fs.**: 78.6Hz
- **Mms**: 22.66g/0.8oz
- **Qms**: 2.6
- **Qes**: 0.31
- **Qts**: 0.279
- **Re.**: 5.8Ω
- **Vas**: 13.13/0.46ft³
- **Bl**: 14.56Tm
- **Cms**: 0.18mm/N
- **Rms**: 4.01kg/s

### MOUNTING INFORMATION
- **Overall diameter**: 225mm/8.6in (octagonal profile)
- **Cut-out diameter**: 187mm/7.36in
- **Mounting slot dimensions**: ø6.5mm/0.25in
- **Number of mounting slots**: 8
- **Mounting slot PCD**: 210mm/8.27in
- **Unit weight**: 4.1kg/9lb

### PACKED DIMENSIONS & WEIGHT
- **Single pack size (WxDxH)**: 238mm x 236mm x 148mm
- **Single pack weight**: 9.31 x 9.31 x 5.81in
- **40 Multi pack qty**: 4.7kg/10.3lb
- **Multi pack size (WxDxH)**: 890mm x 1100mm x 890mm
- **Multi pack weight**: 35in x 43.3in x 35in
- **195kg/430lb

### FREQUENCY RESPONSE AND IMPEDANCE CURVES

#### Specifications
- **Black**: LF response curve
- **Red**: HF response curve

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continous Power Rating is defined as 3dB greater than the AES rating.
4. Measured on axis at 1W, 1m in anechoic environment.
5. Xmax derived from [voice coil winding width × gap depth]/2.
6. Continuous Power Handling is defined as 3dB greater than the AES rating.

Suggested crossover design available online at celestion.com/speakerworld
**GENERAL SPECIFICATIONS: LF**

<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>165mm/6.5in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power rating</td>
<td>150W RMS</td>
</tr>
<tr>
<td>Continuous power rating</td>
<td>80W</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>92dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>100-6,000Hz</td>
</tr>
</tbody>
</table>

**SMALL SIGNAL PARAMETERS**

<table>
<thead>
<tr>
<th>Fs</th>
<th>100Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mms</td>
<td>11.58g/0.41oz</td>
</tr>
<tr>
<td>Qms</td>
<td>3.651</td>
</tr>
<tr>
<td>Qts</td>
<td>0.925</td>
</tr>
<tr>
<td>Voc coil diam</td>
<td>44mm/1.75sin</td>
</tr>
<tr>
<td>Voic coil material</td>
<td>Edgewound copper clad aluminium</td>
</tr>
<tr>
<td>Former material</td>
<td>Glass fibre</td>
</tr>
<tr>
<td>Cone material</td>
<td>Kevlar loaded paper</td>
</tr>
<tr>
<td>Surround material</td>
<td>Cloth-sealed</td>
</tr>
<tr>
<td>Suspension</td>
<td>Single</td>
</tr>
<tr>
<td>Xmax</td>
<td>2mm/0.8in</td>
</tr>
<tr>
<td>Gap depth</td>
<td>6mm/0.24in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>10mm/0.4in</td>
</tr>
</tbody>
</table>

**GENERAL SPECIFICATIONS: HF**

<table>
<thead>
<tr>
<th>Power rating</th>
<th>40W RMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous power rating</td>
<td>80W</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>103dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>1,500-20,000Hz</td>
</tr>
<tr>
<td>Recommended min. crossover (12dB/oct)</td>
<td>2,200Hz</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>34mm/1.4in</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Dual ferrite magnet motor</td>
</tr>
<tr>
<td>Diaphragm material</td>
<td>Polyimide</td>
</tr>
<tr>
<td>Surround material</td>
<td>Polyimide</td>
</tr>
</tbody>
</table>

**MOUNTING INFORMATION**

| Overall diameter | 189mm/7.48in (max) |
| Overall depth | 93mm/3.66in |
| Cut-out diameter | 150mm/5.9in |
| Mounting slot dimensions | 6.5 x 5.5mm/0.26 x 0.22in |
| Number of mounting slots | 4 |
| Mounting slot PCD | 173.5mm/6.83in |
| Unit weight | 3kg/6.6lb |

**PACKED DIMENSIONS & WEIGHT**

<table>
<thead>
<tr>
<th>Single pack size (WxDxH)</th>
<th>190mm x 190mm x 128mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single pack weight</td>
<td>3.5kg/7.7lb</td>
</tr>
<tr>
<td>Multi pack qty</td>
<td>8</td>
</tr>
<tr>
<td>Multi pack size (WxDxH)</td>
<td>350mm x 350mm x 240mm</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>13.7in x 13.7in x 9.4in</td>
</tr>
</tbody>
</table>

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Power calculated on minimum impedance.
4. Xmax derived from: (voice coil winding width-gap depth)/2.
5. Tested for two hours on plane wave tube using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance.
6. Continuous Power Handling is defined as 3dB greater than the AES rating.

Suggested crossover design available online at celeston.com/speakerworld
**NEW**

**TFX0615**

6.5-inch pressed steel chassis, ferrite magnet coaxial driver

---

**150Wrms**  
(AES standard)  
power rating

**94dB**  
sensitivity

**2.5-inch**  
round copper  
voice coil (LF)

**1-inch**  
round copper  
voice coil (HF)

- Silk dome tweeter
- Integrated HF waveguide
- 110° nominal HF coverage

---

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>165</td>
</tr>
<tr>
<td>50</td>
<td>150</td>
</tr>
<tr>
<td>100</td>
<td>135</td>
</tr>
<tr>
<td>200</td>
<td>120</td>
</tr>
<tr>
<td>500</td>
<td>100</td>
</tr>
<tr>
<td>1k</td>
<td>80</td>
</tr>
<tr>
<td>2k</td>
<td>60</td>
</tr>
<tr>
<td>5k</td>
<td>40</td>
</tr>
<tr>
<td>10k</td>
<td>30</td>
</tr>
<tr>
<td>20k</td>
<td>20</td>
</tr>
</tbody>
</table>

---

**GENERAL SPECIFICATIONS: LF**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal diameter</td>
<td>165mm/6.5in</td>
</tr>
<tr>
<td>Power rating</td>
<td>150Wrms</td>
</tr>
<tr>
<td>Continuous power rating</td>
<td>300W</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>94dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>100-6,000Hz</td>
</tr>
<tr>
<td>Chassis type</td>
<td>Pressed Steel</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Ferrite</td>
</tr>
<tr>
<td>Magnet weight</td>
<td>0.81kg/23oz</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>38mm/1.5in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Round copper</td>
</tr>
<tr>
<td>Former material</td>
<td>Polyimide</td>
</tr>
<tr>
<td>Cone material</td>
<td>Kevlar loaded paper</td>
</tr>
<tr>
<td>Surround material</td>
<td>Cloth-sealed</td>
</tr>
<tr>
<td>Suspension</td>
<td>Single</td>
</tr>
<tr>
<td>Xmax</td>
<td>3.75mm/0.15in</td>
</tr>
<tr>
<td>Gap depth</td>
<td>6mm/0.24in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>13.5mm/0.53in</td>
</tr>
</tbody>
</table>

**SMALL SIGNAL PARAMETERS**

| Sd.                     | 153.94cm²/23.86in²          |
| Fs.                     | 96.8Hz                      |
| Mms.                   | 12.62g/0.45oz               |
| Qms.                   | 3.038                       |
| Qes.                   | 0.429                       |
| Qts.                   | 0.376                       |
| Re.                    | 5.39Ω                       |
| Vas.                   | 7.18/0.25Ω                  |
| Bi.                    | 9.82Tm                      |
| Cms.                   | 0.21mm/N                    |
| Rms.                   | 2.53kg/s                    |
| Le (at 1kHz)           | 0.46mH                      |

**GENERAL SPECIFICATIONS: HF**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power rating</td>
<td>10Wrms</td>
</tr>
<tr>
<td>Continuous power rating</td>
<td>20W</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>96dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>1,700-20,000Hz</td>
</tr>
<tr>
<td>Recommended min. crossover (12dB/oct)</td>
<td>2.200Hz</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>25mm/1in</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Neodymium</td>
</tr>
<tr>
<td>Diaphragm material</td>
<td>Silk</td>
</tr>
<tr>
<td>Surround material</td>
<td>Silk</td>
</tr>
</tbody>
</table>

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall diameter</td>
<td>178mm/7in (max)</td>
</tr>
<tr>
<td>Overall depth</td>
<td>75.5mm/3in</td>
</tr>
<tr>
<td>Cut-out diameter</td>
<td>145mm/5.7in</td>
</tr>
<tr>
<td>Mounting slot dimensions</td>
<td>ø4.0mm/0.16in</td>
</tr>
<tr>
<td>Number of mounting slats</td>
<td>4</td>
</tr>
<tr>
<td>Mounting slot PCD</td>
<td>168.5mm/6.63in</td>
</tr>
<tr>
<td>Unit weight</td>
<td>2.1kg/4.6lb</td>
</tr>
</tbody>
</table>

**PACKED DIMENSIONS & WEIGHT**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi pack qty</td>
<td>36</td>
</tr>
<tr>
<td>Multi pack size (Wx Dx H)</td>
<td>742mm x 541mm x 300mm</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>29.2in x 21.3in x 11.8in</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>80kg/176lb</td>
</tr>
</tbody>
</table>

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.  
2. Continuous Power Rating is defined as 3dB greater than the AES rating.  
3. Measured on axis at 1W, 1m in 2n anechoic environment.  
4. Xmax is derived from voice coil winding width-gap depth/2.  
5. Continuous Power Handling is defined as 3dB greater than the AES rating.  

Suggested crossover design available online at celestion.com/speakerworld
NEW

TFX0512
5-inch pressed steel chassis, ferrite magnet coaxial driver

GENERAL SPECIFICATIONS: LF
Nominal diameter.......................................................... 125mm/5in
Power rating1 ................................................................. 100Wrms
Continuous power rating2 .............................................. 200W
Nominal impedance ........................................................ 8Ω
Sensitivity3 ................................................................. 92dB
Frequency range ......................................................... 20-20,000Hz
Chassis type ............................................................... Pressed Steel
Magnet type ............................................................... Ferrite
Magnet weight ............................................................ 0.48kg/17oz
Voice coil diameter ....................................................... 32mm/1.25in
Voice coil material ........................................................ Round copper
Former material ........................................................... Polyimide
Cone material ............................................................. Kevlar loaded paper
Surround material ........................................................ Elastomer
Suspension ................................................................. Single
Xmax4 ................................................................. 3.25mm/0.13in
Gap depth ................................................................. 6mm/0.24in
Voice coil winding width ............................................... 12mm/0.47in

SMALL SIGNAL PARAMETERS
Sd ............................................................ 78.54cm²/12.17in²
Fs ................................................................. 69.1Hz
Mms ................................................................. 8.6g/0.3oz
Qms ................................................................. 0.18
Qes ................................................................. 0.49%
Qts ................................................................. 0.46
Re ................................................................. 5.4Ω
Vas ................................................................. 3.36m²/0.19ft²
BL ................................................................. 6.42Tm
Cms ................................................................. 0.62mm/N
Rms ................................................................. 0.6kg/s
Le (at 1kHz) ........................................................... 0.37mH

GENERAL SPECIFICATIONS: HF
Power rating ................................................................. 8Wrms
Continuous power rating3 .............................................. 16W
Nominal impedance ........................................................ 8Ω
Sensitivity ................................................................. 97dB
Frequency range ......................................................... 2,000-20,000Hz
Recommended min. crossover (12dB/oct) ............ 2,500Hz
Voice coil diameter ....................................................... 19mm/0.75in
Magnet type ............................................................... Neodymium
Diaphragm material ..................................................... Silk
Surround material ........................................................ Silk

MOUNTING INFORMATION
Overall diameter ......................................................... 151mm/5.95in (max)
Overall depth ............................................................. 72mm/2.8in
Cut-out diameter ......................................................... 110mm/4.3in
Mounting slot dimensions ........................................... ø4.5mm/0.18in
Number of mounting slots ............................................. 4
Mounting slot PCD ......................................................... 140mm/5.5in
Unit weight ............................................................... 2kg/4.4lb

PACKED DIMENSIONS & WEIGHT
Multi pack qty ............................................................ 60
Multi pack size (WxDxH) .............................................. 742mm x 267mm x 300mm
................................................................. 29.2in x 10.5in x 11.8in
Multi pack weight ........................................................ 125kg/275lb

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Xmax derived from: (voice coil winding width-gap depth)/2.
5. Suggested crossover design available online at celexon.com/speakerworld
250Wrms (AES standard) power rating
97dB sensitivity
2.5-inch copper voice coil (LF)
1.75-inch edgewound copper clad aluminium voice coil (HF)

- Field replaceable PETP Film HF diaphragm
- 80° nominal HF coverage
- HF repair kit available

### GENERAL SPECIFICATIONS: LF
- Nominal diameter: 305mm/12in
- Power rating: 250Wrms
- Continuous power rating: 80W
- Sensitivity: 97dB
- Frequency range: 40-16,000Hz
- Chassis type: Pressed Steel
- Magnet type: Ferrite
- Voice coil diameter: 64mm/2.5in
- Voice coil material: Round copper
- Former material: Polyimide
- Cone material: Kevlar loaded paper
- Surround material: Cloth sealed
- Suspension: Single
- Xmax: 2.5mm/0.098in
- Gap depth: 8mm/0.315in
- Voice coil winding width: 13mm/0.512in

### SMALL SIGNAL PARAMETERS
- Sd.: 530.93cm²/82.29in²
- Fs.: 63.5Hz
- Mms: 55.59g/1.96oz
- Qms: 3.119
- Qes: 0.405
- Qts: 0.358
- Re.: 5.57Ω
- Vas.: 45.121/1.59ft³
- BI: 17.46Tm
- Cms.: 0.11mm/N
- Rms.: 7.11kg/s
- Le (at 1kHz): 1.2mH

### GENERAL SPECIFICATIONS: HF
- Power rating: 40Wrms
- Continuous power rating: 80W
- Sensitivity: 110dB
- Frequency range: 1,200-16,000Hz
- Recommended min. crossover (12dB/oct): 2,200Hz
- Voice coil diameter: 45mm/1.75in
- Magnet type: Neodymium
- Diaphragm material: PETP film
- Surround material: PETP film

### MOUNTING INFORMATION
- Overall diameter: 309mm/12.1in
- Cut-out diameter: 266mm/10.5in
- Mounting slot dimensions: 87.9mm/3.45in
- Number of mounting slots: 4
- Mounting slot PCD: 297mm/11.69in
- Unit weight: 4.6kg/10.1lb

### PACKED DIMENSIONS & WEIGHT
- Single pack size (WxDxH): 354mm x 354mm x 189mm
- Single pack weight: 5.4kg/11.8lb
- Multi pack qty.: 48
- Multi pack size (WxDxH): 970mm x 1070mm x 850mm
- Multi pack weight: 46.1kg/102.4lb
COAXIAL

FTX1530

FTX1225

FTX1025

FTX0820
## Compact Array Drivers

<table>
<thead>
<tr>
<th>Model</th>
<th>Diameter</th>
<th>Power Rating</th>
<th>Impedance</th>
<th>Sensitivity</th>
<th>Frequency Range</th>
<th>Voice Coil Diameter</th>
<th>Unit Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>AN3510</td>
<td>88mm/3.5in</td>
<td>35Wrms</td>
<td>8Ω</td>
<td>87dB</td>
<td>98-18,500Hz</td>
<td>25mm/1.in</td>
<td>160g/5.65oz</td>
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<tr>
<td>AN2775</td>
<td>70mm/2.75in</td>
<td>20Wrms</td>
<td>8Ω</td>
<td>84dB</td>
<td>160-20,000Hz</td>
<td>20mm/0.75in</td>
<td>100g/3.53oz</td>
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<tr>
<td>AN2075</td>
<td>50mm/2in</td>
<td>20Wrms</td>
<td>8Ω</td>
<td>82dB</td>
<td>160-19,000Hz</td>
<td>20mm/0.75in</td>
<td>97g/3.4oz</td>
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<tr>
<td>AF4010</td>
<td>100mm/4in</td>
<td>35Wrms</td>
<td>16Ω</td>
<td>88dB</td>
<td>100-18,000Hz</td>
<td>25mm/1.in</td>
<td>620g/21.8oz</td>
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<tr>
<td>AF3010</td>
<td>75mm/3in</td>
<td>35Wrms</td>
<td>16Ω</td>
<td>87dB</td>
<td>120-18,000Hz</td>
<td>25mm/1.in</td>
<td>580g/20.4oz</td>
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</tbody>
</table>

*AES Standard*
AN3510
3.5-inch neodymium magnet compact full range driver

GENERAL SPECIFICATIONS
Nominal diameter ........................................... 88.3mm/3.5in
Power rating\(^1\) .............................................. 35Wrms
Continuous power rating\(^2\) ................................ 70W
Nominal impedance ........................................... 8\(\Omega\)
Sensitivity\(^3\) .................................................. 87dB
Frequency range ............................................ 98-18,500Hz
Chassis type ................................................. Glass reinforced ABS
Magnet type .................................................. Neodymium
Voice coil diameter ........................................ 25mm/1in
Voice coil material ........................................... Round copper
Former material ............................................. Polyimide
Cone material ................................................ Aluminum
Surround material .......................................... Elastomer
Suspension ..................................................... Single
Xmax\(^4\) ...................................................... 1.25mm/0.04in
Gap depth ..................................................... 4mm/0.16in
Voice coil winding width .................................. 6.5mm/0.23in

SMALL SIGNAL PARAMETERS\(^5\)
Sd. ............................................................. 38.48cm\(^2\)/5.9in\(^2\)
Fs ............................................................... 113.4Hz
Mms ............................................................ 3.76g/0.13oz
Qms ............................................................. 5.093
Qes ............................................................. 0.760
Qts ............................................................. 0.666
Re ............................................................... 5.73\(\Omega\)
Vas ............................................................. 1.87\(\Omega/0.07\)ft\(^2\)
Bi ............................................................... 4.56Tm
Cms ........................................................... 0.52mm/N
Rms ........................................................... 0.53kg/s
Le (at 1kHz) .................................................. 0.14mH

MOUNTING INFORMATION
Overall size ................................................... 89.3mm x 89.3mm/3.52in x 3.52in
Overall depth ................................................ 50mm/2in
Cut-out diameter ........................................... 78.8mm/3.1in
Fitting ......................................................... \(4 \times M4\) holes
Mounting PCD ................................................ 104mm/4.1in
Unit weight .................................................... 160g/5.65oz

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) .................................. 115mm x 115mm x 70mm
Single pack weight .......................................... 250g/0.6lb
Multi pack qty ................................................ 72
Multi pack size (WxDxH) ................................. 460mm x 635mm x 455mm
Multi pack size ............................................. 18.1in x 25.1in x 17.9in
Multi pack weight .......................................... 15kg/33lb

35Wrms
(AES standard)
Power rating

87dB
Sensitivity

1-inch
Round copper
Voice coil

- Square chassis profile for close coupling
- Rigid aluminium cone
- Half roll elastomer surround
- Weatherproof

FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
2. Continuous Power rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m in 2\(\pi\) anechoic environment.
4. Xmax derived from: (voice coil winding width-gap depth)/2.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.

Also available in 16Ω, data available on request.
20Wrms
(AES standard)
power rating

84dB
sensitivity

0.75-inch
round copper
voice coil

- Square chassis profile for close coupling
- Integrated waveguide for greater HF dispersion
- Rigid aluminium cone
- Half roll elastomer surround
- Weatherproof

GENERAL SPECIFICATIONS
Nominal diameter ........................................ 70mm/2.75in
Power rating1 ........................................... 20Wrms
Continuous power rating2 .............................. 40W
Nominal impedance .................................... 8Ω
Sensitivity3 ............................................... 84dB
Frequency range ...................................... 160-20,000Hz
Chassis type ............................................. Glass reinforced ABS
Magnet type ............................................. Neodymium
Voice coil diameter ..................................... 20mm/0.75in
Voice coil material ...................................... Round copper
Former material ........................................ Polyimide
Cone material ........................................... Aluminium
Surround material ....................................... Elastomer
Suspension ............................................. Single
Xmax4 ..................................................... 1.5mm/0.06in
Gap depth ................................................ 3mm/0.12in
Voice coil winding width ................................ 6mm/0.24in

SMALL SIGNAL PARAMETERS5
Sd. ..................................................... 26.27cm²/4.38in²
Fs ........................................................... 123.3Hz
Mms ....................................................... 2.68g/0.09oz
Qms ....................................................... 5.4Ω
Qes ....................................................... 1.166
Qts ....................................................... 0.959
Re ......................................................... 5.26Ω
Vas ....................................................... 3.57ft/0.13m³
Bi ......................................................... 3.06Ωm
Cms ....................................................... 0.62m²/N
Rms ...................................................... 0.38kg/s
Le (at 1kHz) ............................................. 0.07mH

MOUNTING INFORMATION
Overall size ........................................... 71.3mm x 71.3mm/2.8in x 2.8in
Overall depth .......................................... 43mm/1.8in
Cut-out diameter ...................................... 56.1mm/2.2in
Fitting .................................................. 4 x M4 holes
Mounting PCD ......................................... 82mm/3.2in
Unit weight ............................................ 100g/3.53oz

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) ......................... 115mm x 115mm x 70mm
Single pack weight .................................. 200g/0.4lb
Multi pack qty .......................................... 72
Multi pack size (WxDxH) ......................... 450mm x 350mm x 380mm
Multi pack weight .................................. 10kg/22lb

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. 
2. Power calculated on minimum impedance. Loudspeaker tested in free air. 
3. Continuous Power Rating is defined as 3dB greater than the AES rating. 
4. Xmax derived from: (voice coil winding width-gap depth)/2. 
5. Small signal parameters measured after unit subjected to pre-conditioning signal.
AN2075
2-inch neodymium magnet compact full range driver

GENERAL SPECIFICATIONS
Nominal diameter .............................................. 50mm/2in
Power rating\(^1\) .................................................. 20Wrms
Continuous power rating\(^2\) .................................. 40W
Nominal impedance .......................................... 8Ω
Sensitivity\(^3\) .................................................... 82dB
Frequency range .............................................. 160–19,000Hz
Chassis type ..................................................... Glass reinforced ABS
Magnet type ...................................................... Neodymium
Voice coil diameter .......................................... 20mm/0.75in
Voice coil material ............................................. Round copper
Former material ................................................ Polyimide
Cone material ................................................... Aluminium
Surround material ............................................. Elastomer
Suspension ....................................................... Single
Xmax\(^4\) ............................................................. 1.5mm/0.06in
Gap depth ......................................................... 3mm/0.12in
Voice coil winding width .................................... 6mm/0.24in

SMALL SIGNAL PARAMETERS\(^5\)
Sd ............................................................. 12.56cm\(^2\)/1.95in\(^2\)
Fs ............................................................. 153.4Hz
Mms ........................................................... 1.49g/0.05oz
Qms ........................................................... 5.281
Qes ........................................................... 0.998
Qts ........................................................... 0.839
Re ............................................................. 0.84Ω
Vas ........................................................... 1.51l/0.05ft\(^3\)
Bi ............................................................. 2.71m
Cms ........................................................... 0.72mm/N
Rms ........................................................... 0.27kg/s
Le (at 1kHz) .................................................... 0.04mH

MOUNTING INFORMATION
Overall size ......................................................... 56.2mm x 56.2mm/2.2in x 2.2in
Overall depth ..................................................... 43.5mm/1.7in
Cut-out diameter ............................................... 51.1mm/2in
Fitting ........................................................... 4 x M4 holes
Mounting PCD .................................................. 62mm/2.45in
Unit weight ....................................................... 97g/3.4oz

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) .................................... 90mm x 90mm x 65mm
Single pack weight .......................................... 200g/0.44lb
Multi pack qty ................................................... 72
Multi pack size (WxDxH) .................................... 450mm x 350mm x 380mm
Multi pack weight .......................................... 10kg/22lb

20Wrms
(AES standard) power rating
82dB sensitivity
0.75-inch round copper voice coil

- Square chassis profile for close coupling
- Integrated waveguide for greater HF dispersion
- Rigid aluminium cone
- Half roll elastomer surround
- Weatherproof

FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m in an anechoic environment.
4. Xmax derived from: (voice coil winding width-gap depth)/2.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.
NEW

AF4010
4-inch ferrite magnet compact full range driver

35Wrms
(AES standard)
power rating

88dB
sensitivity

1-inch
round copper voice coil

- Specially treated weather-resistant cone
- Half roll elastomer surround
- Rising HF response

GENERAL SPECIFICATIONS
Nominal diameter ................................. 100mm/4in
Power rating .............................. 35Wrms
Continuous power rating.................. 70W
Nominal impedance ....................... 8Ω
Sensitivity ............................. 88dB
Frequency range ........................... 100-18,000Hz
Chassis type .......................... Pressed Steel
Magnet type .......................... Ferrite
Magnet weight .......................... 228g/8oz
Voice coil diameter ....................... 25mm/1in
Voice coil material ...................... Round copper
Former material .......................... Polyimide
Cone material .......................... Waterproof coated paper
Surround material ...................... Elastomer
Suspension ............................. Single
Xmax ............................ 1.5mm/0.06in
Gap depth .......................... 5mm/0.2in
Voice coil winding width ................. 8mm/0.31in

SMALL SIGNAL PARAMETERS
Sd ........................................... 56.75cm²/8.8in²
Fs ........................................ 104.7Hz
Mms ....................................... 4.95g/0.17oz
Qms ..................................... 5.306
Qes ..................................... 0.951
Qts ..................................... 0.807
Re ....................................... 10.37Ω
Vas ..................................... 2.131/0.08ft³
Bi ....................................... 5.96kΩ
Cms ..................................... 0.47mm/N
Rms ..................................... 0.61kg/s
Le (at 1kHz) ................................ 0.37mH

MOUNTING INFORMATION
Overall diameter ............................. 100.5mm/3.96in
Overall depth ................................ 62mm/2.4in
Cut-out diameter ......................... 92mm/3.6in
Mounting slot dimensions .......... 8.5mm x 4.5mm/0.33in x 0.18in
Number of mounting slots ............. 4
Mounting PCD .......................... 111-115mm/4.37-4.53in
Unit weight ................................ 620g/21.8oz

PACKED DIMENSIONS & WEIGHT
Multi pack qty ................................ 48
Multi pack size (WxDxH) ............... 420mm x 300mm x 300mm
 ..................... 16.5in x 11.8in x 11.8in
Multi pack weight .......................... 35kg/77lb

FREQUENCY RESPONSE AND IMPEDANCE CURVES

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>(dB) Sound Pressure</th>
<th>Impedance (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>110</td>
<td>10</td>
</tr>
<tr>
<td>50</td>
<td>105</td>
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<td>100</td>
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<td>14</td>
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<td>200</td>
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<td>500</td>
<td>90</td>
<td>18</td>
</tr>
<tr>
<td>1k</td>
<td>85</td>
<td>20</td>
</tr>
<tr>
<td>2k</td>
<td>80</td>
<td>22</td>
</tr>
<tr>
<td>5k</td>
<td>75</td>
<td>24</td>
</tr>
<tr>
<td>10k</td>
<td>70</td>
<td>26</td>
</tr>
</tbody>
</table>

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Measured on axis at 1W, 1m in 2n anechoic environment.
5. Xmax derived from: (voice coil winding width x gap depth)/2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
AF3010
3-inch ferrite magnet compact full range driver

GENERAL SPECIFICATIONS
Nominal diameter ........................................ 75mm/3in
Power rating \(^1\) ........................................ 35Wrms
Continuous power rating \(^2\) ......................... 70W
Nominal impedance .................................... 16Ω
Sensitivity \(^3\) .............................................. 87dB
Frequency range ......................................... 120-18,000Hz
Chassis type .............................................. Pressed Steel
Magnet type .............................................. Ferrite
Magnet weight ............................................ 228g/8oz
Voice coil diameter ..................................... 25mm/1in
Voice coil material ....................................... Round copper
Former material .......................................... Polyimide
Cone material .............................................. Waterproof coated paper
Surround material ........................................ Elastomer
Suspension .................................................. Single
Xmax \(^4\) .................................................. 1.5mm/0.06in
Gap depth ................................................. 5mm/0.2in
Voice coil winding width ................................ 8mm/0.31in

SMALL SIGNAL PARAMETERS \(^5\)
Sd .............................................................. 33.18cm/1.31in\(^2\)
Fs .............................................................. 128.9Hz
Mms ........................................................... 3.55g/0.13oz
Qms ............................................................ 0.696
Qes ............................................................ 0.863
Qts ............................................................ 0.740
Re ............................................................. 10.48Ω
Vas ............................................................ 0.67/m/0.02ft\(^2\)
BL .............................................................. 5.98Tm
Cms ............................................................ 0.43mm/N
Rms ............................................................ 0.47kg/s
Le (at 1kHz) .................................................. 0.26mH

MOUNTING INFORMATION
Overall diameter ........................................... 81mm/3.19in
Overall depth .............................................. 57mm/2.2in
Cut-out diameter ......................................... 72mm/2.8in
Mounting slot dimensions ................................ 6mm x 4.5mm/0.24in x 0.18in
Number of mounting slots ................................ 4
Mounting PCD .............................................. 91.5-93mm/3.69-3.65in
Unit weight .................................................. 660g/20.4oz

PACKED DIMENSIONS & WEIGHT
Multi pack qty ............................................... 48
Multi pack size (WxDxH) ................................ 680mm x 260mm x 150mm
........................................ 26.7in x 10.2in x 5.9in
Multi pack weight ......................................... 34kg/75lb

35Wrms
(AES standard)
power rating
87dB
sensitivity
1-inch
round copper
voice coil

- Specially treated weather-resistant cone
- Half roll elastomer surround
- Rising HF response

FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Xmax derived from: (voice coil winding width-gap depth)/2.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.
# LF CAST CHASSIS NEO

Neodymium magnet cast aluminium chassis drivers

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Diameter</th>
<th>Power Rating*</th>
<th>Impedance</th>
<th>Sensitivity</th>
<th>Frequency Range</th>
<th>Voice Coil Diameter</th>
<th>Unit Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CN1845MD</td>
<td>657mm/18in</td>
<td>1700Wrms</td>
<td>8Ω</td>
<td>97dB</td>
<td>30-2,500Hz</td>
<td>115mm/4.5in</td>
<td>10.5kg/23.2lb</td>
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<tr>
<td>CN1025B</td>
<td>254mm/10in</td>
<td>250Wrms</td>
<td>16Ω</td>
<td>99dB</td>
<td>60-5000Hz</td>
<td>64mm/2.5in</td>
<td>2.96kg/6.5lb</td>
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<tr>
<td>CN0617M</td>
<td>165mm/6.5in</td>
<td>200Wrms</td>
<td>16Ω</td>
<td>99dB</td>
<td>300-7000Hz</td>
<td>44mm/1.75in</td>
<td>1.1kg/2.4lb</td>
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<tr>
<td>CN0515M</td>
<td>125mm/5in</td>
<td>100Wrms</td>
<td>16Ω</td>
<td>98dB</td>
<td>200-8000Hz</td>
<td>38mm/1.5in</td>
<td>1.12kg/2.5lb</td>
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<tr>
<td>NTR21-5010JD</td>
<td>530mm/21in</td>
<td>1600Wrms</td>
<td>8Ω</td>
<td>96dB</td>
<td>30-3000Hz</td>
<td>125mm/5in</td>
<td>12.8kg/28.2lb</td>
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<td>NTR15-3016E</td>
<td>381mm/15in</td>
<td>450Wrms</td>
<td>8Ω</td>
<td>96dB</td>
<td>30-3000Hz</td>
<td>75mm/3in</td>
<td>4.1kg/8.8lb</td>
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<td>NTR12-3018D</td>
<td>305mm/12in</td>
<td>350Wrms</td>
<td>8Ω</td>
<td>98dB</td>
<td>50-4000Hz</td>
<td>75mm/3in</td>
<td>2.6kg/5.7lb</td>
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<tr>
<td>NTR10-2520E</td>
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<td>2.2kg/4.89lb</td>
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<td>NTR10-2520D</td>
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<td>8Ω</td>
<td>96dB</td>
<td>55-3500Hz</td>
<td>64mm/2.5in</td>
<td>2.2kg/4.89lb</td>
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<tr>
<td>NTR08-2011D</td>
<td>203mm/8in</td>
<td>200Wrms</td>
<td>8/16Ω</td>
<td>92dB</td>
<td>70-6000Hz</td>
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<td>1.52kg/3.34lb</td>
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<td>NTR08-2009D</td>
<td>203mm/8in</td>
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<td>8/16Ω</td>
<td>94.5dB</td>
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<td>50mm/2in</td>
<td>2.8kg/6.16lb</td>
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<td>NTR06-17X</td>
<td>165mm/6.5in</td>
<td>150Wrms</td>
<td>8Ω</td>
<td>93.5dB</td>
<td>70-5000Hz</td>
<td>45mm/1.75in</td>
<td>1.2kg/2.64lb</td>
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<td>NTR06-1705D</td>
<td>165mm/6.5in</td>
<td>150Wrms</td>
<td>8/16Ω</td>
<td>90dB</td>
<td>70-7000Hz</td>
<td>45mm/1.75in</td>
<td>0.95kg/2.09lb</td>
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<td>NTR06-1705B</td>
<td>165mm/6.5in</td>
<td>150Wrms</td>
<td>8Ω</td>
<td>95dB</td>
<td>150-7000Hz</td>
<td>45mm/1.75in</td>
<td>0.85kg/1.87lb</td>
</tr>
</tbody>
</table>

*AES Standard
**CN1845MD**

18-inch cast aluminium chassis, neodymium magnet LF driver

**GENERAL SPECIFICATIONS**

- **Nominal diameter**: 457mm/18in
- **Power rating¹**: 1750Wrms
- **Continuous power rating²**: 350W
- **Nominal impedance**: 8Ω
- **Sensitivity⁴**: 97dB
- **Frequency range**: 30-2,500Hz

**Chassis type**: Cast Aluminium

**Magnet type**: Neodymium

**Voice coil diameter**: 115mm/4.5in

**Voice coil material**: Copper clad aluminium

**Former material**: Glass fibre

**Cone material**: Glass loaded paper (weather resistant)

**Surround material**: Cloth sealed

**Suspension**: Dual laminated

**Xmax**: 13mm/0.51in

**Gap depth**: 12mm/0.49in

**Voice coil winding width**: 38mm/1.5in

**SMALL SIGNAL PARAMETERS⁵**

- **Sd**: 1134.12cm²/175.79in²
- **Fs**: 35Hz
- **Mms**: 230g/6.33oz
- **Qms**: 3.75
- **Qes**: 0.307
- **Qts**: 0.284
- **Re**: 5.1Ω
- **Vas**: 163.3/8.63ft³
- **Bl**: 29tm
- **Cms**: 0.9mm/N
- **Rms**: 13.49kg/s
- **Le (at 1kHz)**: 2.4mH

**MOUNTING INFORMATION**

- **Overall diameter**: 460mm/18.1in
- **Overall depth**: 235mm/9.25in
- **Cut-out diameter**: 414mm/16.3in
- **Mounting slot dimensions**: 12mm x 7mm/0.47in x 0.27in
- **Number of mounting slots**: 8
- **Mounting slot PCD**: 433-441mm/17.04-17.36in

**PACKED DIMENSIONS & WEIGHT**

- **Single pack size (WxDxH)**: 500mm x 500mm x 300mm
- **Single pack weight**: 12kg/26.4lb

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

- **1750Wrms** (AES standard) power rating
- **97dB** sensitivity
- **4.5-inch** split-wound copper clad aluminium voice coil

- Long excursion: 13mm mathematical Xmax
- Laminated dual suspension
- Balanced Airflow Venting provides enhanced cooling

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m in an anechoic environment.
4. Xmax derived from: (voice coil winding width-gap depth)/2.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.
300Wrms (AES standard) power rating
99dB sensitivity
2.5-inch copper clad aluminium voice coil

- Inverted dustcap for closer positioning of phase plug
- Balanced Airflow Venting provides enhanced cooling

NEW

CN1025B
10-inch cast aluminium chassis, neodymium magnet mid/bass driver

FREQUENCY RESPONSE AND IMPEDANCE CURVES

**GENERAL SPECIFICATIONS**
- Nominal diameter: 254mm/10in
- Power rating: 300Wrms
- Continuous power rating: 500W
- Nominal impedance: 16Ω
- Sensitivity: 99dB
- Frequency range: 60-5,000Hz
- Chassis type: Cast Aluminium
- Magnet type: Neodymium
- Voice coil diameter: 64mm/2.5in
- Voice coil material: Copper clad aluminium
- Former material: Glass fibre
- Cone material: Treated paper
- Surround material: Cloth sealed
- Suspension: Single
- Xmax: 2.1mm/0.08in
- Gap depth: 8mm/0.31in
- Voice coil winding width: 12.2mm/0.49in

**SMALL SIGNAL PARAMETERS**
- Sd: 38.16cm²/3.69in²
- Fs: 79.50Hz
- Mms: 31.45g/1.11oz
- Qms: 3.27
- Qes: 0.409
- Qts: 0.364
- Rs: 10.76Ω
- Vas: 21.65L/0.75ft³
- Bi: 20.31m
- Cms: 0.13mm²/N
- Rms: 4.81kg/s
- Le (at 1kHz): 0.75mH

**MOUNTING INFORMATION**
- Overall diameter: 265mm/10.4in
- Overall depth: 119mm/4.7in
- Cut-out diameter: 233mm/9.2in
- Mounting slot dimensions: 8mm x 6.5mm/0.3in x 0.25in
- Number of mounting slots: 8
- Mounting slot PCD: 244.5-247.5mm/9.63-9.73in
- Unit weight: 2.96kg/6.5lb

**PACKED DIMENSIONS & WEIGHT**
- Multi pack qty: 80
- Multi pack size (WxDxH): 970mm x 1070mm x 850mm
- Multi pack weight: 38.1ton x 42.1ton x 33.4ton
- Multi pack weight: 257kg/565lb

---
1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Xmax derived from (voice coil winding width-gap depth)/2.
5. Small signal parameters measured after unit subjected to preconditioning signal.
**NEW**

**CN0617M**

6.5-inch cast aluminium chassis, neodymium magnet midrange driver

**GENERAL SPECIFICATIONS**
- Nominal diameter: 165mm/6.5in
- Power rating: 200Wrms
- Continuous power rating: 400W
- Nominal impedance: 1Ω
- Sensitivity: 99dB
- Frequency range: 300-7,000Hz
- Chassis type: Cast Aluminium
- Magnet type: Neodymium
- Voice coil diameter: 44mm/1.75in
- Voice coil material: Edgewound copper clad aluminium
- Former material: Glass fibre
- Cone material: Kevlar loaded paper
- Surround material: Temperature resistant foam
- Suspension: Single
- Xmax: 1.2mm/0.05in
- Gap depth: 6mm/0.24in
- Voice coil winding width: 8.4mm/0.33in

**SMALL SIGNAL PARAMETERS**
- Sd: 153.94cm²/23.86in²
- Fs: 197.5Hz
- Mms: 10.75g/0.38oz
- Qms: 5.661
- Qes: 0.55
- Qts: 0.501
- Re: 12.85Ω
- Vas: 2.03l/0.07ft³
- Bl: 17.65Tm
- Cms: 0.06mm/N
- Rms: 2.36kg/s

**MOUNTING INFORMATION**
- Overall diameter: 189mm/7.44in (max)
- Overall depth: 68mm/2.68in
- Cut-out diameter: 150mm/5.9in
- Mounting slot dimensions: 7.5mm x 5.5mm/0.3in x 0.22in
- Number of mounting slots: 4
- Mounting slot PCO: 173-175mm/6.81-6.89in
- Unit weight: 1.1kg/2.4lb

**PACKED DIMENSIONS & WEIGHT**
- Multi pack qty: 8
- Multi pack size (WxDxH): 350mm x 350mm x 190mm
- Multi pack weight: 10kg/22lb

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Xmax derived from: (voice coil winding width - gap depth) / 2.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.

- Inverted dustcap for close positioning of phase plug
- High temperature environmentally robust foam surround
- Copper sleeved pole to reduce distortion
- Chassis design allows for fixing of rear cover

**200Wrms**

(AES standard)

**99dB**

sensitivity

**1.75-inch**

edgewound copper clad aluminium voice coil
100Wrms (AES standard) power rating

98dB sensitivity

1.5-inch copper clad aluminium voice coil

- Inverted dustcap for close positioning of phase plug
- Compact, high flux, Dual Magnet Motor design
- Chassis design allows for fixing of rear cover

NEW

**CN0515M**

5-inch cast aluminium chassis, neodymium magnet midrange driver

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

[Graph showing frequency response and impedance curves]

**GENERAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal diameter</td>
<td>125mm/5in</td>
</tr>
<tr>
<td>Power rating</td>
<td>100Wrms</td>
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<tr>
<td>Continuous power rating</td>
<td>200W</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>16Ω</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>98dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>200-8,000Hz</td>
</tr>
<tr>
<td>Chassis type</td>
<td>Cast Aluminium</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Neodymium</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>38mm/1.5in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Copper clad aluminium</td>
</tr>
<tr>
<td>Former material</td>
<td>Aluminium</td>
</tr>
<tr>
<td>Cone material</td>
<td>Cellulose</td>
</tr>
<tr>
<td>Surround material</td>
<td>Cloth sealed</td>
</tr>
<tr>
<td>Suspension</td>
<td>Single</td>
</tr>
<tr>
<td>Xmax</td>
<td>1.5mm/0.06in</td>
</tr>
<tr>
<td>Gap depth</td>
<td>7mm/0.28in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>10mm/0.39in</td>
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<tr>
<td>Unit weight</td>
<td>7.06kg/s</td>
</tr>
<tr>
<td>Mounting slot PCD</td>
<td>158mm/6.2in</td>
</tr>
<tr>
<td>Number of mounting slots</td>
<td>4</td>
</tr>
<tr>
<td>Mounting slot PCD</td>
<td>142mm/5.6in</td>
</tr>
<tr>
<td>Unit weight</td>
<td>1.12kg/2.5lb</td>
</tr>
</tbody>
</table>

**SMALL SIGNAL PARAMETERS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sd</td>
<td>78.54cm²/12.17in²</td>
</tr>
<tr>
<td>Fs</td>
<td>169.2Hz</td>
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<tr>
<td>Mms</td>
<td>9.11g/0.20oz</td>
</tr>
<tr>
<td>Qms</td>
<td>1.534</td>
</tr>
<tr>
<td>Qes</td>
<td>0.357</td>
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<tr>
<td>Qts</td>
<td>0.276</td>
</tr>
<tr>
<td>Re</td>
<td>11.47Ω</td>
</tr>
<tr>
<td>Vas</td>
<td>0.68/0.02Ω</td>
</tr>
<tr>
<td>Bl</td>
<td>19.19Tm</td>
</tr>
<tr>
<td>Cms</td>
<td>0.08mm/N</td>
</tr>
<tr>
<td>Rms</td>
<td>7.06kg/s</td>
</tr>
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</table>

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall diameter</td>
<td>155mm/6.1in</td>
</tr>
<tr>
<td>Overall depth</td>
<td>73mm/4.6in</td>
</tr>
<tr>
<td>Cut-out diameter</td>
<td>116mm/4.9in</td>
</tr>
<tr>
<td>Number of mounting slots</td>
<td>4</td>
</tr>
<tr>
<td>Mounting slot PCD</td>
<td>142mm/5.6in</td>
</tr>
<tr>
<td>Unit weight</td>
<td>1.12kg/2.5lb</td>
</tr>
</tbody>
</table>

**PACKED DIMENSIONS & WEIGHT**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi pack qty</td>
<td>12</td>
</tr>
<tr>
<td>Multi pack size (WxDxH)</td>
<td>420mm x 270mm x 190mm</td>
</tr>
<tr>
<td></td>
<td>16.5in x 10.6in x 7.5in</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>14.5kg/32lb</td>
</tr>
</tbody>
</table>
**NTR21-5010JD**

21-inch cast aluminium chassis, neodymium magnet LF driver

---

**GENERAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Nominal diameter</td>
<td>530mm/21in</td>
</tr>
<tr>
<td>Power rating</td>
<td>1600Wrms</td>
</tr>
<tr>
<td>Continuous power rating</td>
<td>3200W</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>98dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>30-3000Hz</td>
</tr>
<tr>
<td>Chassis type</td>
<td>Cast Aluminium</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Neodymium</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>125mm/5in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Round copper</td>
</tr>
<tr>
<td>Former material</td>
<td>Glass fibre</td>
</tr>
<tr>
<td>Cone material</td>
<td>Carbon fibre loaded paper</td>
</tr>
<tr>
<td>Surround material</td>
<td>Cloth sealed</td>
</tr>
<tr>
<td>Suspension</td>
<td>Double</td>
</tr>
<tr>
<td>Xmax</td>
<td>9mm/0.35in</td>
</tr>
<tr>
<td>Gap depth</td>
<td>12mm/0.47in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>30mm/1.18in</td>
</tr>
</tbody>
</table>

---

**SMALL SIGNAL PARAMETERS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sd</td>
<td>1661.9cm²/257.59in²</td>
</tr>
<tr>
<td>Fs</td>
<td>32.2Hz</td>
</tr>
<tr>
<td>Mms</td>
<td>344.1g/12.14oz</td>
</tr>
<tr>
<td>Qms</td>
<td>5.819</td>
</tr>
<tr>
<td>Qes</td>
<td>0.339</td>
</tr>
<tr>
<td>Qts</td>
<td>0.32</td>
</tr>
<tr>
<td>Re</td>
<td>5.57Ω</td>
</tr>
<tr>
<td>Vas</td>
<td>276.7/9.97th²</td>
</tr>
<tr>
<td>Bl</td>
<td>33.85Tm</td>
</tr>
<tr>
<td>Cms</td>
<td>0.07mm/N</td>
</tr>
<tr>
<td>Rms</td>
<td>11.98kg/s</td>
</tr>
<tr>
<td>Le (at 1kHz)</td>
<td>2.25mH</td>
</tr>
</tbody>
</table>

---

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall diameter</td>
<td>550mm/21.65in</td>
</tr>
<tr>
<td>Overall depth</td>
<td>254mm/10in</td>
</tr>
<tr>
<td>Cut-out diameter</td>
<td>492mm/19.37in</td>
</tr>
<tr>
<td>Mounting slot dimensions</td>
<td>12.5mm x 8.5mm/0.49in x 0.33in</td>
</tr>
<tr>
<td>Number of mounting slots</td>
<td>8</td>
</tr>
<tr>
<td>Mounting slot PCD</td>
<td>520-528mm/20.5-20.8in</td>
</tr>
<tr>
<td>Unit weight</td>
<td>12.8kg/29lb</td>
</tr>
</tbody>
</table>

---

**PACKED DIMENSIONS & WEIGHT**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single pack size (WxDxH)</td>
<td>575mm x 575mm x 260mm</td>
</tr>
<tr>
<td>Single pack weight</td>
<td>22.6in x 22.6in x 11in</td>
</tr>
<tr>
<td></td>
<td>13.2kg/29lb</td>
</tr>
</tbody>
</table>

---

**1600Wrms**

(AES standard)

- Power rating
- Sensitivity
- Frequency response on axis

---

**5-inch**

inside/outside copper voice coil

- Rigid, lightweight carbon fibre loaded cone
- Vented magnet assembly for more efficient cooling
- Compact, high flux, Dual Magnet Motor design
- Optimised double suspension

---

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

- Topmost curve: Frequency response on axis
- Secondary curve: Frequency response at 45° off axis

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard
2. Power calculated on minimum impedance. Loudspeaker tested in free air
3. Continuous Power Rating is defined as 3dB greater than the AES rating
4. Measured on axis at 3W, 1m in 2 anechoic environment.
5. Xmax derived from: (voice coil winding width-gap depth)/2
350W rms  
(AES standard)  
power rating

98dB  
sensitivity

3-inch  
edgewound copper  
voice coil

- Coated glass-loaded cone for enhanced weather resistance
- Vented magnet assembly for more efficient cooling
- Compact, high flux, Dual Magnet Motor design

**NTR15-3018E**  
15-inch cast aluminium  
chassis, neodymium magnet LF driver

**GENERAL SPECIFICATIONS**

Nominal diameter ........................................ 361mm/15in  
Power rating 1 ........................................ 350W rms  
Continuous power rating 2  ........................................ 900W  
Nominal impedance ........................................ 8Ω  
Sensitivity 3 ........................................ 98dB  
Frequency range ........................................ 30-3,000Hz  
Chassis type ........................................ Cast Aluminium  
Magnet type ........................................ Neodymium  
Voice coil diameter ........................................ 75mm/3in  
Voice coil material ........................................ Edgewound copper  
Former material ........................................ Glass fibre  
Cone material ........................................ Glass loaded paper (weather resistant)  
Surround material ........................................ Cloth sealed  
Suspension ........................................ Single  
Xmax ........................................ 5mm/0.2in  
Gap depth ........................................ 20mm/0.79in  
Voice coil winding depth ........................................ 20mm/0.79in

**SMALL SIGNAL PARAMETERS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sd.</td>
<td>655.3cm²/132.57in²</td>
</tr>
<tr>
<td>Fs.</td>
<td>34.9Hz</td>
</tr>
<tr>
<td>Mms.</td>
<td>104.12g/3.674oz</td>
</tr>
<tr>
<td>Qms.</td>
<td>4.863</td>
</tr>
<tr>
<td>Qes.</td>
<td>0.301</td>
</tr>
<tr>
<td>Qts.</td>
<td>0.283</td>
</tr>
<tr>
<td>Re.</td>
<td>5.85Ω</td>
</tr>
<tr>
<td>Vas.</td>
<td>207.27V/7.32Ω²</td>
</tr>
<tr>
<td>Bi.</td>
<td>21.07Tm</td>
</tr>
<tr>
<td>Crms.</td>
<td>0.2mm/N</td>
</tr>
<tr>
<td>Rms.</td>
<td>4.69kg/s</td>
</tr>
<tr>
<td>Le (at 1kHz)</td>
<td>1.18mH</td>
</tr>
</tbody>
</table>

**MOUNTING INFORMATION**

Overall diameter ........................................ 386mm/15.2in  
Overall depth ........................................ 162mm/6.38in  
Cut-out diameter ........................................ 351mm/13.8in  
Mounting slot dimensions ........................................ 10mm x 7mm/0.4in x 0.27in  
Number of mounting slots ........................................ 6  
Mounting slot PCD ........................................ 367-375mm/14.4-14.7in  
Unit weight ........................................ 4kg/8.8lb

**PACKED DIMENSIONS & WEIGHT**

Single pack size (WxDxH) ........................................ 435mm x 435mm x 200mm  
Single pack weight ........................................ 5kg/11lb  
Multi pack qty ........................................ 56  
Multi pack size (WxDxH) ........................................ 1200mm x 1000mm x 980mm  
Multi pack weight ........................................ 47.2in x 39.4in x 36.6in  
Multi pack weight ........................................ 166kg/365lb

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Measured on axis at 1W, 1m in a 2nd order anechoic environment.
4. Xmax derived from: (voice coil winding width-gap depth)/2.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.

---

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>165</td>
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<tr>
<td>8000</td>
<td>60</td>
</tr>
<tr>
<td>10000</td>
<td>55</td>
</tr>
</tbody>
</table>

Topmost curve: Frequency response on axis  
Secondary curve: Frequency response at 45° off axis
NTR12-3018D
12-inch cast aluminium chassis, neodymium magnet LF driver

GENERAL SPECIFICATIONS
Nominal diameter .................................. 305mm/12in
Power rating ........................................ 350W rms
Continuous power rating ......................... 700W
Nominal impedance ................................ 8Ω
Sensitivity .......................................... 98dB
Frequency range ................................... 50-4,000Hz
Chassis type ....................................... Cast Aluminium
Magnet type ........................................ Neodymium
Voice coil diameter ................................ 75mm/3in
Voice coil material .................................. Round copper
Former material .................................... Glass fibre
Cone material ....................................... Kevlar loaded paper
Surround material .................................. Cloth sealed
Suspension .......................................... Single
Xmax .................................................. 4mm/0.16in
Gap depth ........................................... 16mm/0.63in
Voice coil winding width ......................... 15.99Ω

SMALL SIGNAL PARAMETERS
Sd ....................................................... 530.93cm²/82.29in²
Fs ....................................................... 58.8Hz
Mms ................................................... 58.09g/2.05oz
Qms .................................................... 3.391
Qes .................................................... 0.325
Qts .................................................... 0.296
Re ..................................................... 5.99Ω
Vas ..................................................... 50.39l/1.78ft³
Bl ...................................................... 19.9Tm
Cms ................................................... 0.13mm/N
Rms ................................................... 6.32kg/s
Le (at 1kHz) ........................................ 0.8mH

MOUNTING INFORMATION
Overall diameter ................................... 316mm/12.5in
Overall depth ...................................... 105mm/4.13in
Cut-out diameter .................................. 286mm/11.26in
Mounting slot dimensions: 9.5mm x 6.5mm/0.37in x 0.26in
Number of mounting slots: 8
Mounting slot PCD: 296-304mm/11.7-12in
Unit weight ......................................... 2.6kg/5.7lb

PACKED DIMENSIONS & WEIGHT
Single pack size (WxHxD) ....................... 350mm x 350mm x 185mm
Single pack weight ................................ 3kg/6.6lb
Multi pack qty ..................................... 60
Multi pack size (WxHxD) ....................... 1080mm x 980mm x 880mm
Multi pack weight ............................... 178kg/392lb

450Wrms
(AES standard) power rating
98dB sensitivity
3-inch inside/outside copper voice coil

- Vented cast aluminium heatsink
- Compact, high flux, Dual Magnet Motor design

FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Sensitivity measured at 1W, 1m in an anechoic environment.
4. Xmax derived from (voice coil winding width - gap depth) / 2.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.
250Wrms (AES standard) power rating

96dB sensitivity

2.5-inch inside/outside copper voice coil

- Vented cast aluminium heatsink
- Compact, high flux, Dual Magnet Motor design

**NTR10-2520E**

10-inch cast aluminium chassis, neodymium magnet mid/bass driver

**GENERAL SPECIFICATIONS**

Nominal diameter ........................................ 254mm/10in

Power rating\(^1\) ........................................ 250Wrms

Continuous power rating\(^2\) .......................... 500W

Nominal impedance ....................................... 8Ω

Sensitivity\(^3\) ........................................... 96dB

Frequency range ........................................ 50-3,000Hz

Chassis type ............................................. Cast Aluminium

Magnet type ................................................ Neodymium

Voice coil diameter ..................................... 64mm/2.5in

Voice coil material ....................................... Round copper

Former material ......................................... Glass fibre

Cone material ............................................ Kevlar loaded paper

Surround material ....................................... Cloth sealed

Suspension .................................................. Single

Xmax ..................................................... 4.75mm/0.19in

Gap depth .................................................. 8mm/0.32in

Voice coil winding width ................................ 17.5mm/0.69in

**SMALL SIGNAL PARAMETERS**\(^4\)

Sd. .................................................... 346.30cm\(^2\)/53.69in\(^2\)

Fs. ...................................................... 55.8Hz

Mms .................................................... 46g/1.62oz

Qms ..................................................... 3.214

Qts ..................................................... 0.345

Qes ..................................................... 0.312

Re ...................................................... 5.44Ω

Vas ..................................................... 30.07l/1.06ft\(^3\)

Bi ...................................................... 15.93Tm

Cms ..................................................... 0.18mm/N

Rms ..................................................... 4.97kg/s

Le (at 1kHz) ........................................... 0.68mH

**MOUNTING INFORMATION**

Overall diameter ........................................ 260mm/10.24in

Overall depth ........................................... 113mm/4.45in

Cut-out diameter ........................................ 232mm/9.13in

Mounting slot dimensions ......................... 7.5mm x 6.5mm/0.3in x 0.26in

Number of mounting slots .......................... 4

Mounting slot PCO .................................. 244-247mm/9.6-9.7in

Unit weight ............................................... 2.2kg/4.89lb

**PACKED DIMENSIONS & WEIGHT**

Single pack size (WxDxH) ......................... 305mm x 305mm x 150mm

Single pack weight .................................. 2.5kg/5.5lb

Multi pack qty ......................................... 96

Multi pack size (WxDxH) ............................ 1080mm x 880mm x 840mm

Multi pack weight ................................. 42.5in x 34.6in x 33.1in

Multi pack weight ................................... 235kg/518lb

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Power rating defined as 3dB greater than the AES rating.
4. Small signal parameters measured after unit subjected to pre-conditioning signal.

---

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (Ω)</th>
<th>Sound Pressure (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>160</td>
<td>110</td>
</tr>
<tr>
<td>50</td>
<td>150</td>
<td>105</td>
</tr>
<tr>
<td>100</td>
<td>140</td>
<td>100</td>
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<tr>
<td>200</td>
<td>130</td>
<td>95</td>
</tr>
<tr>
<td>500</td>
<td>120</td>
<td>90</td>
</tr>
<tr>
<td>1000</td>
<td>110</td>
<td>85</td>
</tr>
<tr>
<td>2000</td>
<td>100</td>
<td>80</td>
</tr>
</tbody>
</table>

Topmost curve: Frequency response on axis | Secondary curve: Frequency response at 45° off axis.

---

- Vented cast aluminium heatsink
- Compact, high flux, Dual Magnet Motor design
FREQUENCY RESPONSE AND IMPEDANCE CURVES

- Vented cast aluminium heatsink
- Compact, high flux, Dual Magnet Motor design

**GENERAL SPECIFICATIONS**

- Nominal diameter: 254mm/10in
- Power rating: 250Wrms
- Continuous power rating: 500W
- Nominal impedance: 8Ω
- Sensitivity: 96dB
- Frequency range: 55-3,500Hz
- Chassis type: Cast Aluminium
- Magnet type: Neodymium
- Voice coil diameter: 64mm/2.5in
- Voice coil material: Copper clad aluminium
- Former material: Glass fibre
- Cone material: Kevlar loaded paper
- Surround material: Cloth sealed
- Suspension: Single
- Xmax: 4mm/0.16in
- Gap depth: 8mm/0.32in
- Voice coil winding width: 16mm/0.63in

**SMALL SIGNAL PARAMETERS**

- Sd: 346.36cm²/53.69in²
- Fs: 57.2Hz
- Mms: 37.95g/1.34oz
- Qms: 2.824
- Qts: 0.322
- Qes: 0.289
- Re: 5.92Ω
- Vas: 34.69/1.23ft³
- Bl: 15.63Tm
- Cms: 0.2mm/N
- Rms: 6.82kg/s
- Le: 0.49mH

**MOUNTING INFORMATION**

- Overall diameter: 260mm/10.24in
- Overall depth: 113mm/4.45in
- Cut-out diameter: 232mm/9.13in
- Mounting slot dimensions: 7.5mm x 6.5mm/0.3in x 0.26in
- Number of mounting slots: 4
- Mounting slot PCD: 244-247mm/9.6-9.7in
- Unit weight: 2.2kg/4.89lb

**PACKED DIMENSIONS & WEIGHT**

- Single pack size (WxDxH): 305mm x 305mm x 150mm
- Single pack weight: 2.5kg/5.5lb
- Multi pack qty: 96
- Multi pack size (WxDxH): 1080mm x 880mm x 840mm
- Multi pack weight: 235kg/518lb

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Measured on axis at 1W, 1m in an anechoic environment.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.
200W rms
(AES standard)
power rating
92dB
sensitivity
2-inch
round copper
voice coil

- Coated Kevlar-loaded cone for enhanced weather resistance
- Vented cast aluminium heatsink
- Full gap flux saturation for increased BI and reduced distortion

**NTR08-2011D**
8-inch cast aluminium chassis, neodymium magnet mid/bass driver

**GENERAL SPECIFICATIONS**
- Nominal diameter: 203mm/8in
- Power rating: 200W rms
- Continuous power rating: 400W
- Nominal impedance: 8Ω
- Sensitivity: 92dB
- Frequency range: 70-6,000Hz
- Chassis type: Cast Aluminium
- Magnet type: Neodymium
- Voice coil diameter: 50mm/2in
- Voice coil material: Round copper
- Former material: Polyimide
- Cone material: Kevlar loaded paper (weather resistant)
- Surround material: Cloth sealed
- Suspension: Single
- Xmax: 4mm/0.16in
- Gap depth: 8mm/0.32in
- Voice coil winding width: 16mm/0.63in

**SMALL SIGNAL PARAMETERS**
- Sd: 226.98cm^2/35.18in^2
- Fs: 84.8Hz
- Mms: 24.91g/23.99oz
- Qms: 2.3
- Qts: 0.436
- Re: 5.79Ω
- Vas: 10.31/0.37ft^3
- BI: 11.98Tm
- Cms: 0.14mm/N
- Rms: 9.66kg/s
- Le (at 1kHz): 0.59mH

**MOUNTING INFORMATION**
- Overall diameter: 225mm/8.8in (octagonal profile)
- Overall depth: 100mm/4.16in
- Cut-out diameter: 187mm/7.4in
- Mounting slot dimensions: ø6.5mm/0.26in
- Number of mounting slots: 8
- Mounting slot PCD: 210mm/8.3in
- Unit weight: 1.52kg/3.4lb

**PACKED DIMENSIONS & WEIGHT**
- Single pack size (WxDxH): 235mm x 235mm x 140mm
- Single pack weight: 1.75kg/3.85lb
- Multi pack qty: 6
- Multi pack size (WxDxH): 450mm x 380mm x 260mm
- Multi pack weight: 16kg/35.2lb
NTR08-2009D
8-inch cast aluminium chassis, neodymium magnet mid/bass driver

GENERAL SPECIFICATIONS
Nominal diameter ........................................... 203mm/8in
Power rating1 .................................................. 200Wrms
Continuous power rating2 ................................. 400W
Nominal impedance ......................................... 8Ω
Sensitivity ..................................................... 94.5dB
Frequency range ........................................... 70-5,000Hz
Chassis type .................................................. Cast Aluminium
Magnet type .................................................. Neodymium
Voice coil diameter ......................................... 50mm/2in
Voice coil material .......................................... Edgewound copper
Former material ............................................. Glass fibre
Cone material ................................................ Kevlar loaded paper (weather resistant)
Surround material .......................................... Cloth sealed
Suspension ................................................... Single
Xmax .......................................................... 4mm/0.16in
Gap depth .................................................... 10mm/0.39in
Voice coil winding width .................................. 18mm/0.67in

SMALL SIGNAL PARAMETERS3
Sd .............................................................. 226.98cm²/35.18in²
Fs .............................................................. 71.4Hz
Mms .......................................................... 31.06g/1.1oz
Qms .......................................................... 2.035
Qes .......................................................... 0.236
Qts .......................................................... 0.211
Re ............................................................ 5.5Ω
Vas ........................................................... 11.65Ω/0.41HINF
Bl ............................................................. 18.03TM
Cms .......................................................... 0.16mm/N
Rms .......................................................... 6.65kg/s
Le (at 1kHz) ................................................. 0.48mH

MOUNTING INFORMATION
Overall diameter ........................................... 225mm/8.8in (octagonal profile)
Overall depth ............................................... 100mm/4.16in
Cut-out diameter .......................................... 187mm/7.4in
Mounting slot dimensions ................................ ø6.5mm/0.26in
Number of mounting slots ................................ 8
Mounting slot PCD ......................................... 210mm/8.3in
Unit weight ................................................ 2.8kg/6.16lb

PACKED DIMENSIONS & WEIGHT
Multi pack qty .............................................. 8
Multi pack size (WxDxH) ................................. 450mm x 380mm x 260mm
................................. 17.7in x 15in x 10.2in
Multi pack weight ......................................... 24kg/52.8lb

FREQUENCY RESPONSE AND IMPEDANCE CURVES
(db) Sound Pressure | Impedance (Ω)

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on-axis at 1W, 1m in 1m anechoic environment.
4. Xmax derived from: (voice coil winding width-gap depth)/2
5. Small signal parameters measured after unit subjected to pre-conditioning signal.

Also available in 16Ω, data available on request.
150Wrms
(AES standard)
power rating

93.5dB
sensitivity

1.75-inch
copper clad
aluminium voice coil

- Copper sleeved pole to reduce distortion
- Vented magnet assembly for more efficient cooling
- Sculpted elastomer surround for improved modal distribution

**GENERAL SPECIFICATIONS**

- Nominal diameter: 165mm/6.5in
- Power rating: 150Wrms
- Continuous power rating: 300W
- Nominal impedance: 8Ω
- Sensitivity: 93.5dB
- Frequency range: 70-5,000Hz
- Chassis type: Cast Aluminium
- MAGNET TYPE: Neodymium
- Voice coil diameter: 44mm/1.75in
- Voice coil material: Copper clad aluminium
- Former material: Polyimide
- Cone material: Kevlar loaded paper (weather resistant)
- Surround material: Elastomer
- Suspension: Single
- Xmax ( Voice coil winding width-gap depth)/2: 3mm/0.12in
- Gap depth: 6mm/0.24in
- Voice coil winding width: 12mm/0.47in

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

<table>
<thead>
<tr>
<th>[dB] Sound Pressure</th>
<th>Impedance (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>110</td>
<td>165</td>
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<tr>
<td>105</td>
<td>150</td>
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<tr>
<td>100</td>
<td>145</td>
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<td>95</td>
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<td>85</td>
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<td>15</td>
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<td>30</td>
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<td>25</td>
<td>5</td>
</tr>
<tr>
<td>20</td>
<td>0</td>
</tr>
</tbody>
</table>

Topmost curve: Frequency response on axis | Secondary curve: Frequency response at 45° off axis

1. Tested for two hours using a continuous, band-limited noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Xmax derived from: (voice coil winding width-gap depth)/2.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.

**MOUNTING INFORMATION**

- Overall diameter: 189mm/7.44in (max)
- Overall depth: 73mm/2.87in
- Cut-out diameter: 145mm/5.71in
- Mounting slot dimensions: ø10mm/0.39in
- Number of mounting slots: 4
- Mounting slot PCD: 170mm/6.7in
- Unit weight: 1.2kg/2.64lb

**PACKED DIMENSIONS & WEIGHT**

- Multi pack qty: 8
- Multi pack size (WxDxH): 350mm x 350mm x 190mm
- Multi pack weight: 11kg/25lb

**NTR06-17X**

6.5-inch cast aluminium chassis, neodymium magnet mid/ bass driver
### GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal diameter</td>
<td>165mm/6.5in</td>
</tr>
<tr>
<td>Power rating</td>
<td>150Wrms</td>
</tr>
<tr>
<td>Continuous power rating</td>
<td>300W</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>90dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>70-7,000Hz</td>
</tr>
<tr>
<td>Chassis type</td>
<td>Cast Aluminium</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Neodymium</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>44mm/1.73in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Copper clad aluminium</td>
</tr>
<tr>
<td>Former material</td>
<td>Polyimide</td>
</tr>
<tr>
<td>Cone material</td>
<td>Kevlar loaded paper</td>
</tr>
<tr>
<td>Surround material</td>
<td>Elastomer</td>
</tr>
<tr>
<td>Suspension</td>
<td>Single</td>
</tr>
<tr>
<td>Xmax</td>
<td>4.5mm/0.18in</td>
</tr>
<tr>
<td>Gap depth</td>
<td>6mm/0.24in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>15mm/0.63in</td>
</tr>
</tbody>
</table>

### SMALL SIGNAL PARAMETERS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sd.</td>
<td>153.94cm²/23.86in²</td>
</tr>
<tr>
<td>Fₛ</td>
<td>49Hz</td>
</tr>
<tr>
<td>Mrms</td>
<td>16.58g/0.58oz</td>
</tr>
<tr>
<td>Qmrs</td>
<td>6.123</td>
</tr>
<tr>
<td>Qes</td>
<td>0.40Ω</td>
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<tr>
<td>Qts</td>
<td>0.378</td>
</tr>
<tr>
<td>Re</td>
<td>5.27Ω</td>
</tr>
<tr>
<td>Vas</td>
<td>21.42Ω/0.76ft³</td>
</tr>
<tr>
<td>Bl</td>
<td>6.17Tm</td>
</tr>
<tr>
<td>Cms</td>
<td>0.64mm/N</td>
</tr>
<tr>
<td>Rms</td>
<td>0.83kg/s</td>
</tr>
<tr>
<td>Le (at 1kHz)</td>
<td>0.25mH</td>
</tr>
</tbody>
</table>

### MOUNTING INFORMATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall diameter</td>
<td>109mm/7.44in (max)</td>
</tr>
<tr>
<td>Overall depth</td>
<td>87mm/3.43in</td>
</tr>
<tr>
<td>Cut-out diameter</td>
<td>100mm/5.9in</td>
</tr>
<tr>
<td>Mounting slot dimensions</td>
<td>6.5mm x 5.5mm/0.26in x 0.22in</td>
</tr>
<tr>
<td>Number of mounting slots</td>
<td>4</td>
</tr>
<tr>
<td>Mounting slot PCD</td>
<td>173.5mm/6.83in</td>
</tr>
<tr>
<td>Unit weight</td>
<td>0.95kg/2.09lb</td>
</tr>
</tbody>
</table>

### PACKED DIMENSIONS & WEIGHT

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single pack size (WxDxH)</td>
<td>190mm x 190mm x 110mm</td>
</tr>
<tr>
<td>Single pack weight</td>
<td>1.1kg/2.4lb</td>
</tr>
<tr>
<td>Multi pack qty</td>
<td>120</td>
</tr>
<tr>
<td>Multi pack size (WxDxH)</td>
<td>1070mm x 650mm x 860mm</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>42.1in x 33.5in x 33.9in</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>140kg/308lb</td>
</tr>
</tbody>
</table>

### FREQUENCY RESPONSE AND IMPEDANCE CURVES

- **Topmost curve:** Frequency response on axis
- **Secondary curve:** Frequency response at 45° off axis

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
2. Continuous Power Rating is defined as 3dB greater than the AES rating. 
3. Measured on axis at 1W, 1m in an anechoic environment.
4. Xmax derived from: (voice coil winding width-gap depth)/2
5. Small signal parameters measured after unit subjected to pre-conditioning signal.

---

**150Wrms (AES standard) power rating**

**90dB sensitivity**

**1.75-inch copper clad aluminium voice coil**

- Copper sleeved pole to reduce distortion
- Vented magnet assembly for more efficient cooling
150Wrms (AES standard) power rating

95dB sensitivity

1.75-inch copper clad aluminium voice coil

- Copper sleeved pole to reduce distortion
- Vented magnet assembly for more efficient cooling

### GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Nominal diameter</td>
<td>165mm/6.5in</td>
</tr>
<tr>
<td>Power rating</td>
<td>150Wrms</td>
</tr>
<tr>
<td>Continuous power rating</td>
<td>300W</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>95dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>1500-7000Hz</td>
</tr>
<tr>
<td>Chassis type</td>
<td>Cast Aluminium</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Neodymium</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>44mm/1.75in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Copper clad aluminium</td>
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<tr>
<td>Former material</td>
<td>Polyimide</td>
</tr>
<tr>
<td>Cone material</td>
<td>Kevlar loaded paper</td>
</tr>
<tr>
<td>Surround material</td>
<td>Cloth sealed</td>
</tr>
<tr>
<td>Suspension</td>
<td>Single</td>
</tr>
<tr>
<td>Xmax¹</td>
<td>2.5mm/0.098in</td>
</tr>
<tr>
<td>Gap depth</td>
<td>6mm/0.24in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>11mm/0.43in</td>
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</tbody>
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### SMALL SIGNAL PARAMETERS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sd</td>
<td>153.94cm²/23.86in²</td>
</tr>
<tr>
<td>Fs</td>
<td>132.9Hz</td>
</tr>
<tr>
<td>Mms</td>
<td>13.26g/0.47oz</td>
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<tr>
<td>Qms</td>
<td>1.912</td>
</tr>
<tr>
<td>Qes</td>
<td>0.576</td>
</tr>
<tr>
<td>Qts</td>
<td>0.442</td>
</tr>
<tr>
<td>Re</td>
<td>5.94Ω</td>
</tr>
<tr>
<td>Vas</td>
<td>3.63/0.13ft³</td>
</tr>
<tr>
<td>Bl</td>
<td>10.69Tm</td>
</tr>
<tr>
<td>Cms</td>
<td>0.11mm/N</td>
</tr>
<tr>
<td>Rms</td>
<td>6.79kg/s</td>
</tr>
<tr>
<td>Le (at 1kHz)</td>
<td>0.21mH</td>
</tr>
</tbody>
</table>

### MOUNTING INFORMATION

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall diameter</td>
<td>189mm/7.44in (max)</td>
</tr>
<tr>
<td>Overall depth</td>
<td>71mm/2.79in</td>
</tr>
<tr>
<td>Cut-out diameter</td>
<td>150mm/5.91in</td>
</tr>
<tr>
<td>Mounting slot dimensions</td>
<td>6.5mm x 5.5mm/0.26in x 0.22in</td>
</tr>
<tr>
<td>Number of mounting slots</td>
<td>4</td>
</tr>
<tr>
<td>Mounting slot PCD</td>
<td>173.5mm/6.83in</td>
</tr>
<tr>
<td>Unit weight</td>
<td>0.85kg/1.87lb</td>
</tr>
</tbody>
</table>

### PACKED DIMENSIONS & WEIGHT

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single pack size (WxDxH)</td>
<td>190mm x 190mm x 110mm</td>
</tr>
<tr>
<td>Single pack weight</td>
<td>1kg/2.2lb</td>
</tr>
<tr>
<td>Multi pack qty</td>
<td>160</td>
</tr>
<tr>
<td>Multi pack size (WxDxH)</td>
<td>800mm x 84.9mm x 74mm</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>31.4in x 33in x 29.1in</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>17kg/37.4lb</td>
</tr>
</tbody>
</table>

### FREQUENCY RESPONSE AND IMPEDANCE CURVES

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (Ω)</th>
<th>Sound Pressure (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>165</td>
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<tr>
<td>20</td>
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<tr>
<td>120</td>
<td>100</td>
<td>55</td>
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</table>

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Xmax derived from: (voice coil winding width X gap depth) / 2.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.

---

#### Additional Information

- **NTR06-1705B**: 6.5-inch cast aluminium chassis, neodymium magnet mid/bass driver.
- **Applications**: HF NEO, HF FERRITE, HORNS, COAXIAL, COMPACT ARRAY DRIVER, LF PRESSED CHASSIS NEO, LF PRESSED CHASSIS FERRITE.
<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Diameter</th>
<th>Power Rating*</th>
<th>Impedance</th>
<th>Sensitivity</th>
<th>Frequency Range</th>
<th>Voice Coil Diameter</th>
<th>Unit Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF18VJD</td>
<td>460mm/18in</td>
<td>1600W rms</td>
<td>4/Ω</td>
<td>97dB</td>
<td>25-1,500Hz</td>
<td>125mm/5in</td>
<td>23kg/50.6lb</td>
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<tr>
<td>CF1840JD</td>
<td>457mm/18in</td>
<td>1200W rms</td>
<td>4/Ω</td>
<td>95dB</td>
<td>30-2,500Hz</td>
<td>100mm/4in</td>
<td>11.6kg/25.5lb</td>
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<tr>
<td>CF1840H</td>
<td>457mm/18in</td>
<td>1000W rms</td>
<td>4Ω</td>
<td>97dB</td>
<td>30-2,500Hz</td>
<td>100mm/4in</td>
<td>11.2kg/24.6lb</td>
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<tr>
<td>CF1540HD</td>
<td>381mm/15in</td>
<td>1200W rms</td>
<td>8Ω</td>
<td>97dB</td>
<td>35-2,000Hz</td>
<td>100mm/4in</td>
<td>9.8kg/21.6lb</td>
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<tr>
<td>CF1230F</td>
<td>305mm/12in</td>
<td>500W rms</td>
<td>8Ω</td>
<td>96dB</td>
<td>50-3,000Hz</td>
<td>75mm/3in</td>
<td>6.75kg/14.9lb</td>
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<td>CF1025C</td>
<td>254mm/10in</td>
<td>300W rms</td>
<td>8Ω</td>
<td>99dB</td>
<td>60-5,000Hz</td>
<td>64mm/2.5in</td>
<td>4.9kg/10.8lb</td>
</tr>
<tr>
<td>CF0820M</td>
<td>200mm/8in</td>
<td>250W rms</td>
<td>8Ω</td>
<td>98dB</td>
<td>50-6,000Hz</td>
<td>50mm/2in</td>
<td>3.1kg/6.8lb</td>
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<tr>
<td>CF0617M</td>
<td>165mm/6.5in</td>
<td>200W rms</td>
<td>8Ω</td>
<td>96dB</td>
<td>300-7,000Hz</td>
<td>45mm/1.75in</td>
<td>1.9kg/4.2lb</td>
</tr>
<tr>
<td>FTR18-4080HDX</td>
<td>457mm/18in</td>
<td>1000W rms</td>
<td>8Ω</td>
<td>95dB</td>
<td>30-2,500Hz</td>
<td>100mm/4in</td>
<td>9.8kg/21.6lb</td>
</tr>
<tr>
<td>FTR18-4080FD</td>
<td>457mm/18in</td>
<td>1000W rms</td>
<td>8Ω</td>
<td>97dB</td>
<td>30-2,500Hz</td>
<td>100mm/4in</td>
<td>9.8kg/21.6lb</td>
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<tr>
<td>FTR18-4080F</td>
<td>457mm/18in</td>
<td>600W rms</td>
<td>8Ω</td>
<td>97dB</td>
<td>30-3,000Hz</td>
<td>100mm/4in</td>
<td>9.7kg/21.4lb</td>
</tr>
<tr>
<td>FTR15-4080HDX</td>
<td>381mm/15in</td>
<td>1000W rms</td>
<td>4/Ω</td>
<td>96dB</td>
<td>40-2,500Hz</td>
<td>100mm/4in</td>
<td>9.7kg/21.3lb</td>
</tr>
<tr>
<td>FTR15-4080FD</td>
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<td>1000W rms</td>
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<td>97dB</td>
<td>35-2,500Hz</td>
<td>100mm/4in</td>
<td>9.5kg/20.9lb</td>
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<tr>
<td>FTR15-4080F</td>
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<td>600W rms</td>
<td>8Ω</td>
<td>97dB</td>
<td>35-3,000Hz</td>
<td>100mm/4in</td>
<td>9.4kg/20.7lb</td>
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<tr>
<td>FTR15-3070E</td>
<td>361mm/15in</td>
<td>400W rms</td>
<td>4/Ω</td>
<td>97dB</td>
<td>40-4,000Hz</td>
<td>75mm/3in</td>
<td>6.4kg/14.1lb</td>
</tr>
<tr>
<td>FTR15-3070C</td>
<td>361mm/15in</td>
<td>400W rms</td>
<td>8Ω</td>
<td>99dB</td>
<td>40-4,000Hz</td>
<td>75mm/3in</td>
<td>6.3kg/13.8lb</td>
</tr>
<tr>
<td>FTR12-4080HDX</td>
<td>305mm/12in</td>
<td>1000W rms</td>
<td>8Ω</td>
<td>95dB</td>
<td>47-3,000Hz</td>
<td>100mm/4in</td>
<td>9.6kg/21.1lb</td>
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<tr>
<td>FTR12-4080DL</td>
<td>305mm/12in</td>
<td>700W rms</td>
<td>8Ω</td>
<td>88dB</td>
<td>20-300Hz</td>
<td>100mm/4in</td>
<td>10.2kg/22.4lb</td>
</tr>
<tr>
<td>FTR12-3070C</td>
<td>305mm/12in</td>
<td>350W rms</td>
<td>8Ω</td>
<td>96dB</td>
<td>40-4,000Hz</td>
<td>75mm/3in</td>
<td>6.3kg/13.9lb</td>
</tr>
<tr>
<td>FTR12-2565D</td>
<td>305mm/12in</td>
<td>250W rms</td>
<td>8Ω</td>
<td>95dB</td>
<td>55-4,000Hz</td>
<td>64mm/2.5in</td>
<td>4.5kg/9.9lb</td>
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<td>60-4,000Hz</td>
<td>50mm/2in</td>
<td>4kg/8.8lb</td>
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<tr>
<td>FTR08-2011D</td>
<td>200mm/8in</td>
<td>200W rms</td>
<td>8Ω</td>
<td>93dB</td>
<td>70-6,000Hz</td>
<td>50mm/2in</td>
<td>3.65kg/8.0lb</td>
</tr>
</tbody>
</table>

*AES Standard
CF18VJD
18-inch, cast aluminium chassis, ferrite magnet Subwoofer

GENERAL SPECIFICATIONS
Nominal diameter .................................................. 460mm/18in
Power rating1 .................................................. 1600Wrms
Continuous power rating2 .................................. 3200W
Nominal impedance ........................................... 8Ω
Sensitivity3 ..................................................... 97dB
Frequency range .................................................. 25-1,500Hz
Chassis type .................................................. Cast Aluminium
Magnet type .................................................. Ferrite
Magnet weight .................................................. 4.93kg/17.4oz
Voice coil diameter ............................................ 125mm/5in
Voice coil material ............................................... Round copper
Former material ................................................ Glass fibre
Cone material .................................................. Carbon and kevlar loaded paper
Surround material ............................................. Cloth sealed
Suspension .......................................................... Double
Xmax4 ......................................................... 9mm/0.35in
Gap depth ......................................................... 12mm/0.47in
Voice coil winding width .................................... 30mm/1.18in

SMALL SIGNAL PARAMETERS5
Sd ............................................................ 1134.12cm²/175.79in²
Fs .............................................................. 36.5Hz
Mms ........................................................... 265.42g/9.36oz
Qms ............................................................. 0.33
Qts ............................................................. 0.31
Re ............................................................. 6.13Ω
Vas ............................................................. 143.8l/3.15ft³
Bl .............................................................. 32.59Tm
Cms ............................................................. 0.08mm/N
Rms ........................................................... 12.59kg/s
Le (at 1kHz) .................................................. 1.67mH

MOUNTING INFORMATION
Overall diameter ................................................. 462mm/18.19in
Overall depth ..................................................... 233mm/9.17in
Cut-out diameter ............................................... 416mm/16.38in
Mounting slot dimensions .................................. 11mm x 7mm/0.43in x 0.28in
Number of mounting slots ................................... 8
Mounting PCD .................................................. 432-441mm/17-17.36in
Unit weight ..................................................... 23kg/50.6lb

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) .................................. 500mm x 500mm x 255mm
Single pack weight .......................................... 24kg/52.8lb

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Continuous Power Rating is defined as 3dB greater than the AES rating
3. Measured on axis at 1W, 1m in a near anechoic environment.
4. Xmax derived from: (voice coil winding width-gap depth)/2
5. Small signal parameters measured after unit subjected to pre-conditioning signal.

FREQUENCY RESPONSE AND IMPEDANCE CURVES

1600Wrms
(AES standard) power rating
97dB
sensitivity
5-inch
inside/outside
voice coil

- Airflow vented magnet assembly for dynamic heat dispersion
- Twin demodulation rings
- Longer coil for greater control at high excursion
- Optimised double suspension

Also available in 4Ω, data available on request
**GENERAL SPECIFICATIONS**

- Nominal diameter: 457mm/18in
- Power rating\(^1\): 1200Wrms
- Continuous power rating\(^2\): 2400W
- Nominal impedance: 8Ω
- Frequency range: 30-2.5kHz
- Chassis type: Cast Aluminium
- Magnet type: Ferrite
- Magnet weight: 3.18kg/112oz
- Voice coil diameter: 100mm/4in
- Voice coil material: Round copper
- Former material: Glass fibre
- Cone material: Kevlar loaded paper
- Surround material: Cloth sealed
- Suspension: Double
- Xmax\(^3\): 10mm/0.39in
- Gap depth: 10mm/0.39in
- Voice coil winding width: 30mm/1.18in

**SMALL SIGNAL PARAMETERS**

- Sd\(^4\): 1134.12cm\(^2\)/175.79in\(^2\)
- Fs\(^5\): 57Hz
- Mms\(^6\): 217.4g/7.67oz
- Qms\(^6\): 4.372
- Qts\(^6\): 0.64
- Re\(^7\): 5.29Ω
- Vas\(^8\): 155I/5.47ft\(^3\)
- Bl\(^8\): 24.76Tm
- Crms\(^8\): 0.09mm/N
- Rms\(^8\): 11.56kg/s
- Le (at 1kHz): 1.16mH

**MOUNTING INFORMATION**

- Overall diameter: 460mm/18.11in
- Overall depth: 220mm/8.68in
- Cut-out diameter: 414mm/16.24in
- Number of mounting slots: 8
- Mounting PCD: 432-441mm/17-17.36in

**PACKED DIMENSIONS & WEIGHT**

- Single pack size (WxDxH): 500mm x 500mm x 255mm
- Single pack weight: 13kg/28.6lb
- Multi pack qty: 2
- Multi pack size (WxDxH): 1210mm x 1050mm x 1070mm
- Multi pack weight: 305kg/670lb

---

**1.** Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.

**2.** Continuous Power Rating is defined as 3dB greater than the AES rating.

**3.** Measured on axes at 1W, 1m in an anechoic environment.

**4.** Xmax derived from: (voice coil winding width-gap depth)/2

**5.** Small signal parameters measured after unit subjected to pre-conditioning signal.

**6.** Also available in 42, data available on request.
**CF1840H**
18-inch, cast aluminium chassis, ferrite magnet LF driver

**GENERAL SPECIFICATIONS**
- Nominal diameter: 457mm/18in
- Power rating\(^3\): 1000Wrms
- Continuous power rating\(^4\): 2000W
- Nominal impedance: 4Ω
- Sensitivity\(^5\): 97dB
- Frequency range: 30-2,500Hz
- Chassis type: Cast Aluminium
- Chassis type: Ferrite
- Magnet weight: 3.18kg/112oz
- Voice coil diameter: 100mm/4in
- Voice coil material: Round copper
- Former material: Glass fibre
- Cone material: Carbon fibre loaded paper
- Surround material: Cloth sealed
- Suspension: Single
- Xmax\(^6\): 8.0mm/0.31in
- Gap depth: 9.5mm/0.37in
- Voice coil winding width: 25mm/0.99in

**SMALL SIGNAL PARAMETERS**
- Sd: 1134.12cm\(^2\)/175.79in\(^2\)
- Fs: 385Hz
- Mms: 158.7g/5.6oz
- Qms: 3.921
- Qes: 0.385
- Qts: 0.351
- Re: 3.06Ω
- Vas: 196.7l/6.95ft\(^3\)
- Bl: 17.61Tm
- Cms: 0.11mm/N
- Rms: 9.76kg/s
- Le (at 1kHz): 0.95mH

**MOUNTING INFORMATION**
- Overall diameter: 460mm/18.11in
- Overall depth: 220mm/8.68in
- Cut-out diameter: 414mm/16.24in
- Mounting slot dimensions: 11mm x 7mm/0.43in x 0.28in
- Number of mounting slots: 8
- Mounting PCD: 432-441mm/17-17.36in
- Unit weight: 11.6kg/25.5lb

**PACKED DIMENSIONS & WEIGHT**
- Single pack size (WxDxH): 500mm x 500mm x 255mm
- Single pack weight: 13kg/28.6lb

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**
- 1000Wrms (AES standard) power rating
- 97dB sensitivity
- 4-inch inside/outside voice coil

- Rigid, lightweight carbon fibre loaded cone
- Balanced airflow venting provides enhanced cooling
- Twin demodulation rings
- Low Mass Coil Reinforcement

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m in an anechoic environment.
4. Xmax derived from: (voice coil winding width-gap depth)/2.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.
NEW

CF1540HD
15-inch, cast aluminium chassis, ferrite magnet LF driver

1200Wrms
(AES standard)
power rating

97dB
sensitivity

4-inch
inside/outside
voice coil

- Balanced airflow venting provides enhanced cooling
- Twin demodulation rings
- Optimised double suspension
- Glass loaded paper cone with weather-resistant impregnation

FREQUENCY RESPONSE AND IMPEDANCE CURVES

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (Ω)</th>
<th>Sound Pressure (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>165</td>
<td>110</td>
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<td>50</td>
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</tr>
<tr>
<td>32000</td>
<td>65</td>
<td>60</td>
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</tbody>
</table>

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Xmax derived from: (voice coil winding width-gap depth)/2.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.

GENERAL SPECIFICATIONS

- Nominal diameter: 381mm/15in
- Power rating: 1200W rms
- Continuous power rating: 2400W
- Nominal impedance: 8Ω
- Sensitivity: 97dB
- Frequency range: 35-2000Hz
- Chassis type: Cast Aluminium
- Magnet type: Ferrite
- Magnet weight: 3.18kg/112oz
- Voice coil diameter: 100mm/4in
- Voice coil material: Round copper
- Former material: Glass fibre
- Cone material: Glass loaded paper (weather resistant)
- Surround material: Cloth sealed
- Suspension: Double
- Xmax: 8mm/0.33in
- Gap depth: 9.5mm/0.37in
- Voice coil winding width: 25mm/0.98in

SMALL SIGNAL PARAMETERS

- Sd: 855.3cm²/132.57in²
- Fs: 40.68Hz
- Mm: 145.53g/5.13oz
- Qm: 5.591
- Qes: 0.323
- Qts: 0.305
- Re: 5.15Ω
- Vas: 108.3/3.62ft³
- BI: 24.7Tm
- Sm: 0.11mm/N
- Rms: 6.67kg/s
- Le (at 1kHz): 1.22mH

MOUNTING INFORMATION

- Overall diameter: 393mm/15.46in
- Overall depth: 184mm/7.24in
- Cut-out diameter: 354mm/13.94in
- Mounting slot dimensions: 10mm x 7mm/0.39in x 0.27in
- Number of mounting slots: 8
- Mounting PCD: 357-374mm/14.45-14.72in
- Unit weight: 11.2kg/24.6lb

PACKED DIMENSIONS & WEIGHT

- Multi pack qty: 24
- Multi pack size (WxDxH): 1210mm x 1050mm x 980mm
- Multi pack weight: 300kg/660lb
**CF1230F**

12-inch, cast aluminium chassis, ferrite magnet LF driver

### GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal diameter</td>
<td>305mm/12in</td>
</tr>
<tr>
<td>Power rating&lt;sup&gt;1&lt;/sup&gt;</td>
<td>500Wrms</td>
</tr>
<tr>
<td>Continuous power rating&lt;sup&gt;2&lt;/sup&gt;</td>
<td>1000W</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Sensitivity&lt;sup&gt;3&lt;/sup&gt;</td>
<td>98dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>50-3,000Hz</td>
</tr>
<tr>
<td>Chassis type</td>
<td>Cast Aluminium</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Ferrite</td>
</tr>
<tr>
<td>Magnet weight</td>
<td>2.2kg/75oz</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>75mm/3in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Edgewound copper clad aluminium</td>
</tr>
<tr>
<td>Former material</td>
<td>Glass fibre</td>
</tr>
<tr>
<td>Cone material</td>
<td>Glass loaded paper (weather resistant)</td>
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<tr>
<td>Surround material</td>
<td>Cloth sealed</td>
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<tr>
<td>Suspension</td>
<td>Single</td>
</tr>
<tr>
<td>Xmax&lt;sup&gt;4&lt;/sup&gt;</td>
<td>5.5mm/0.22in</td>
</tr>
<tr>
<td>Gap depth</td>
<td>8mm/0.31in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>19mm/0.75in</td>
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### SMALL SIGNAL PARAMETERS<sup>5</sup>

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Sd</td>
<td>53.09cm²/82.29in²</td>
</tr>
<tr>
<td>Fs</td>
<td>650.5Hz</td>
</tr>
<tr>
<td>Mms</td>
<td>63.75g/2.25oz</td>
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<tr>
<td>Qms</td>
<td>4.33</td>
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<tr>
<td>Qes</td>
<td>0.34</td>
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<tr>
<td>Qts</td>
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</tr>
<tr>
<td>Re</td>
<td>5.08Ω</td>
</tr>
<tr>
<td>Vas</td>
<td>4.96l/1.75ft²</td>
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<td>Bl</td>
<td>18.33Tm</td>
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<td>0.12mm/N</td>
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<tr>
<td>Rms</td>
<td>5.23kg/s</td>
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<tr>
<td>Le (at 1kHz)</td>
<td>0.74mH</td>
</tr>
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### MOUNTING INFORMATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Overall diameter</td>
<td>315mm/12.4in</td>
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<tr>
<td>Overall depth</td>
<td>153mm/6.02in</td>
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<tr>
<td>Cut-out diameter</td>
<td>282mm/11.1in</td>
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<tr>
<td>Mounting slot dimensions</td>
<td>10mm x 6.5mm/0.39in x 0.26in</td>
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<tr>
<td>Number of mounting slots</td>
<td>8</td>
</tr>
<tr>
<td>Mounting PCD</td>
<td>294-300mm/11.6-11.8in</td>
</tr>
<tr>
<td>Unit weight</td>
<td>6.75kg/14.9lb</td>
</tr>
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### PACKED DIMENSIONS & WEIGHT

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Multi pack qty</td>
<td>60</td>
</tr>
<tr>
<td>Multi pack size (WxDxH)</td>
<td>1210mm x 1050mm x 980mm</td>
</tr>
<tr>
<td></td>
<td>47.6in x 41.3in x 35.4in</td>
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<tr>
<td>Multi pack weight</td>
<td>435kg/870lb</td>
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</table>

### 3-inch edgewound copper clad aluminium voice coil

- Balanced airflow venting provides enhanced cooling
- Twin demodulation rings
- Glass loaded paper cone with weather-resistant impregnation

#### FREQUENCY RESPONSE AND IMPEDANCE CURVES

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (Ω)</th>
</tr>
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<tbody>
<tr>
<td>50</td>
<td>110</td>
</tr>
<tr>
<td>100</td>
<td>105</td>
</tr>
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1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Measured on axis at 1W, 1m in a free field environment.
5. Xmax derived from: (voice coil winding width-gap depth)/2.

<sup>5</sup> Small signal parameters measured after unit subjected to pre-conditioning signal.
CF1025C
10-inch, cast aluminium chassis, ferrite magnet mid/bass driver

**300Wrms**
(AES standard)
Power rating

**99dB**
sensitivity

**2.5-inch**
edgewound copper clad aluminium voice coil

- Balanced airflow venting provides enhanced cooling
- Twin demodulation rings

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

<table>
<thead>
<tr>
<th>dB</th>
<th>Sound Pressure</th>
<th>Impedance (Ω)</th>
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<tr>
<td>160</td>
<td>165</td>
<td>15</td>
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</tbody>
</table>

Topmost curve: Frequency response on axis | Secondary curve: Frequency response at 45° off axis

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard
2. Power calculated on minimum impedance. Loudspeaker tested in free air
3. Continuous Power Rating is defined as 3dB greater than the AES rating
4. Measured on axis at 1W, 1m in 2π anechoic environment
5. Small signal parameters measured after unit subjected to pre-conditioning signal

**GENERAL SPECIFICATIONS**
Nominal diameter ........................................... 254mm/10in
Power rating1 .............................................. 300Wrms
Continuous power rating2 .................................... 600W
Nominal impedance ........................................ 8Ω
Sensitivity3 .............................................. 99dB
Frequency range ........................................... 60-5,000Hz
Chassis type ............................................... Cast Aluminium
Magnet type ............................................... Ferrite
Magnet weight ............................................ 1.7kg/60oz
Voice coil diameter ...................................... 64mm/2.5in
Voice coil material ....................................... Edgewound copper clad aluminium
Former material .......................................... Glass fibre
Cone material ............................................. Kevlar loaded paper
Surround material ........................................ Cloth sealed
Suspension .................................................. Single
Xmax4 ..................................................... 2.5mm/0.1in
Gap depth ................................................... 8mm/0.31in
Voice coil winding width ................................ 12.5mm/0.49in

**SMALL SIGNAL PARAMETERS**
Sd. ..................................................... 346.36cm²/13.69in²
Fs. ....................................................... 54.6Hz
Mms ....................................................... 37.03g/1.31oz
Qms ....................................................... 2.338
Qes ....................................................... 0.299
Qts ....................................................... 0.265
Re ......................................................... 5.15Ω
Vas ...................................................... 38.63L/1.36ft³
Bl ......................................................... 14.82Tm
Cms ....................................................... 0.23mm/N
Rms ....................................................... 5.46kg/s
Le (at 1kHz) ........................................... 0.57mH

**MOUNTING INFORMATION**
Overall diameter ......................................... 265mm/10.43in
Overall depth ............................................. 119mm/4.69in
Cut-out diameter ........................................ 230.8mm/9.11in
Mounting slot dimensions ................................ 8mm x 6.5mm/0.31in x 0.25in
Number of mounting slots ................................ 8
Mounting PCD ........................................... 244.5-247mm/9.63-9.73in
Unit weight .............................................. 4.9kg/10.8lb

**PACKED DIMENSIONS & WEIGHT**
Single pack size (WxDxH) ................................... 300mm x 306mm x 155mm
Single pack weight ...................................... 5.5kg/12.1lb
Multi pack qty ............................................ 8
Multi pack size (WxDxH) ................................... 555mm x 520mm x 290mm
Multi pack weight ....................................... 21.9kg x 20.5in x 11.4in
Multi pack weight ....................................... 4.5kg/99lb
GENERAL SPECIFICATIONS
Nominal diameter ........................................... 200mm/8in
Power rating1 ................................................... 250Wrms
Continuous power rating2 ................................... 500W
Nominal impedance .......................................... 8Ω
Sensitivity3 ...................................................... 93dB
Frequency range ............................................. 50–6,000Hz
Chassis type ................................................... Cast Aluminium
Magnet type ................................................... Ferrite
Magnet weight .................................................. 0.99kg/3.4oz
Voice coil diameter .......................................... 50mm/2in
Voice coil material ........................................... Copper clad aluminium
Former material .............................................. Glass fibre
Cone material ................................................... Treated paper
Surround material ............................................ Elastomer
Suspension ...................................................... Single
Xmax4 .......................................................... 5.25mm/0.21in
Gap depth ...................................................... 8mm/0.31in
Voice coil winding width .................................. 18.5mm/0.73in

SMALL SIGNAL PARAMETERS4
Sd. .............................................................. 226.98cm^2/35.18in^2
Fs ................................................................. 50.5Hz
Mms .............................................................. 32.35g/1.14oz
Qms .............................................................. 0.394
Qes .............................................................. 0.366
Re ............................................................... 5.45Ω
Vas ............................................................... 22.4/0.79ft^3
Bl ................................................................. 11.92Tm
Cms .............................................................. 0.31mm/N
Rms .............................................................. 2.01kg/s
Le (at 1kHz) .................................................... 0.78mH

MOUNTING INFORMATION
Overall diameter ............................................. 21.5mm/0.85in
Overall depth .................................................. 108mm/4.3in
Cut-out diameter ............................................. 16.7mm/0.64in
Mounting slot dimensions ......................... 7mm x 5.6mm/0.28in x 0.22in
Number of mounting slots .............................. 8
Mounting PCD ............................................... 197–200mm/7.8–7.9in
Unit weight ..................................................... 3.1kg/6.8lb

PACKED DIMENSIONS & WEIGHT
Multi pack qty ................................................... 8
Multi pack size (WxDxH) .................................... 465mm x 455mm x 250mm
..................................................... 18.3in x 17.9in x 9.8in
Multi pack weight ........................................... 27.5kg/60lb

250Wrms  
(AES standard)  
power rating
95dB  
sensitivity

2-inch  
copper clad  
aluminium voice coil

• Balanced airflow venting provides enhanced cooling
• Half-roll elastomer surround

FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Xmax derived from (voice coil winding width–gap depth)/2.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.
GENERAL SPECIFICATIONS
Nominal diameter: 200mm/8in
Power rating: 250W (AES standard)
Continuous power rating: 500W
Nominal impedance: 8Ω
Sensitivity: 98dB
Frequency range: 150-6,000Hz
Chassis type: Cast Aluminium
Magnet type: Ferrite
Magnet weight: 1.3kg/4.5oz
Voice coil diameter: 50mm/2in
Voice coil material: Copper clad aluminium
Cone material: Glass fibre
Surround material: Cloth sealed
Suspension: Single
Xmax: 1.5mm/0.06in
Gap depth: 6mm/0.24in
Voice coil winding width: 11mm/0.43in

MOUNTING INFORMATION
Overall diameter: 215mm/8.5in
Overall depth: 113mm/4.5in
Cut-out diameter: 167mm/6.5in
Mounting slot dimensions: 7mm x 5.6mm/0.28in x 0.22in
Number of mounting slots: 8
Mounting PCD: 197-200mm/7.8-7.9in
Unit weight: 3.4kg/7.5lb

PACKED DIMENSIONS & WEIGHT
Multi pack qty: 6
Multi pack size (WxDxH): 465mm x 455mm x 250mm
Unit weight: 18.3in x 17.9in x 9.8in
Multi pack weight: 27.5kg/60lb
**GENERAL SPECIFICATIONS**

- **Nominal diameter** ........................................ 165mm/6.5in
- **Power rating** ........................................... 200Wrms
- **Continuous power rating** ................................... 400W
- **Nominal impedance** ........................................ 8Ω
- **Sensitivity** ............................................... 96dB
- **Frequency range** ......................................... 300-7,000Hz
- **Chassis type** ............................................. Cast Aluminium
- **Magnet type** ................................................ Ferrite
- **Magnet weight** ............................................ 0.6kg/220oz
- **Voice coil diameter** ...................................... 45mm/1.75in
- **Voice coil material** ........................................ Edgewound copper clad aluminium
- **Former material** ........................................... Glass fibre
- **Cone material** ............................................... Kevlar loaded paper
- **Surround material** .......................................... Temperature resistant foam
- **Suspension** ................................................ Single
- **Xmax** ......................................................... 1.2mm/0.05in
- **Gap depth** .................................................. 6mm/0.24in
- **Voice coil winding width** .................................. 8.4mm/0.33in

**SMALL SIGNAL PARAMETERS**

- **Sd** ......................................................... 153.94cm²/23.86in²
- **Fs** ......................................................... 116.6Hz
- **Mms** ...................................................... 11.59g/0.41oz
- **Qms** ....................................................... 0.63
- **Qts** ....................................................... 0.65
- **Re** ......................................................... 5.3Ω
- **Vas** ....................................................... 5.39/0.19Tm³
- **Bl** ......................................................... 9.68Tm
- **Cms** ...................................................... 0.16mm/N
- **Rms** ....................................................... 1.23kg/s
- **Le (at 1kHz)** ............................................. 1.73mH

**MOUNTING INFORMATION**

- **Overall diameter** ........................................ 169mm/7.44in (max)
- **Overall depth** ............................................ 76.5mm/3.1in
- **Cut-out diameter** ........................................ 150mm/5.9in
- **Mounting slot dimensions** ............................. 7.5mm x 5.5mm/0.3in x 0.22in
- **Number of mounting slots** ............................. 4
- **Mounting PCD** ........................................... 173-175mm/6.81-6.89in
- **Unit weight** ............................................... 1.9kg/4.2lb

**PACKED DIMENSIONS & WEIGHT**

- **Single pack size** (WxDxH) .......................... 190mm x 190mm x 110mm
- **Single pack weight** .................................... 2.4kg/5.3lb
- **Multi pack qty** ........................................... 8
- **Multi pack size** (WxDxH) ............................ 345mm x 345mm x 190mm
- **Multi pack weight** ..................................... 20kg/44lb

---

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

- **200Wrms** (AES standard) power rating
- **96dB** sensitivity
- **1.75-inch edgewound copper clad aluminium voice coil**

- Inverted dustcap for close positioning of phase plug
- High temperature, environmentally robust foam surround
- Copper sleeved pole reduces HF inductive rise
- Chassis design allows for fixing of rear cover

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Xmax derived from: (voice coil winding width-gap depth)/2.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.

---

**Notes:**

- **Impedance (Ω)**
- **Sound Pressure (dB)**
- **Frequency (Hz)**
- **Power (W)**
- **Temperature (°C)**
- **Humidity (%)**
- **Frequency response on axis**
- **Frequency response at 45° off axis**

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**Images:**

- Image of a loudspeaker with specifications
- Plot of frequency response and impedance curves

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**CF0617M**

6.5-inch, cast aluminium chassis, ferrite magnet midrange driver
FTR18-4080HDX
18-inch, cast aluminium chassis, ferrite magnet
LF driver

GENERAL SPECIFICATIONS
Nominal diameter ........................................ 457mm/18in
Power rating\(^1\) ........................................ 1000Wrms
Continuous power rating\(^2\) ....................... 2000W
Nominal impedance .................................. 8Ω
Sensitivity\(^1\) ........................................ 95dB
Frequency range ..................................... 30-2.500Hz
Chassis type ............................................ Cast Aluminium
Magnet type ............................................. Ferrite
Magnet weight ........................................... 3.1kg/110oz
Voice coil diameter .................................. 100mm/4in
Voice coil material ..................................... Round copper
Former material ......................................... Glass fibre
Cone material ........................................... Glass loaded paper (weather resistant)
Surround material ..................................... Cloth sealed
Suspension ............................................... Double
Xmax\(^3\) ................................................... 8mm/0.33in
Gap depth .............................................. 9.5mm/0.37in
Voice coil winding width ..................... 25mm/0.99in

SMALL SIGNAL PARAMETERS\(^4\)
Sd. ........................................................... 1134.12cm\(^2\)/175.79in\(^2\)
Fs ........................................................... 39.2Hz
Mms ..................................................... 171.75g/6.06oz
Qms ........................................................ 5.367
Qes ........................................................ 0.466
Qts ........................................................ 0.429
Re ............................................................ 5Ω
Vas ...................................................... 174.88l/6.18ft\(^3\)
Bl ........................................................... 21.29Tm
Cms ........................................................ 0.1m/N
Rms ........................................................ 7.85kg/s
Le (at 1kHz) ............................................. 1.79mH

MOUNTING INFORMATION
Overall diameter ........................................ 652mm/25.6in
Overall depth .......................................... 205mm/8.07in
Cut-out diameter ...................................... 416mm/16.3in
Mounting slot dimensions .......................... 10mm x 7mm/0.4in x 0.27in
Number of mounting slots ........................................ 8
Mounting PCD ......................................... 429-440mm/16.89-17.32in
Unit weight ............................................. 9.8kg/21.6lb

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) ................... 500mm x 500mm x 240mm
........................................................ 19.7in x 19.7in x 9.4in
Single pack weight ................................... 11.6kg/25.6lb
Multi pack qty .......................................... 24
Multi pack size (WxDxH) ................... 1210mm x 1050mm x 980mm
........................................................ 47.6in x 41.3in x 35.4in
Multi pack weight ..................................... 265kg/580lb

1000Wrms
(AES standard)
power rating

95dB
sensitivity

4-inch
inside/outside
voice coil

- Glass loaded paper cone with weather-resistant impregnation
- Optimised double suspension
- Airflow vented magnet assembly for dynamic heat dispersion

FREQUENCY RESPONSE AND IMPEDANCE CURVES

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Measured on-axis at 1W, 1m in an anechoic environment.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.
1000Wrms
(AES standard)
power rating

97dB
sensitivity

4-inch
inside/outside voice coil

- Glass loaded paper cone with weather-resistant impregnation
- Optimised double suspension
- Airflow vented magnet assembly for dynamic heat dispersion

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (Ω)</th>
<th>(dB) Sound Pressure</th>
</tr>
</thead>
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<td>20</td>
<td>165</td>
<td>110</td>
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<td>60</td>
</tr>
<tr>
<td>100000</td>
<td>55</td>
<td>55</td>
</tr>
</tbody>
</table>

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Measured on axis at 1W, 1m in 2π anechoic environment.
4. Xmax derived from: (voice coil winding width-gap depth)/2.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.

**GENERAL SPECIFICATIONS**

- Nominal diameter: 457mm/18in
- Power rating: 1000Wrms
- Continuous power rating: 2000W
- Nominal impedance: 8Ω
- Sensitivity: 97dB
- Frequency range: 30-2500Hz
- Chassis type: Cast Aluminium
- Magnet type: Ferrite
- Magnet weight: 3.1kg/110oz
- Voice coil diameter: 100mm/4in
- Voice coil material: Round copper
- Former material: Glass fibre
- Cone material: Glass loaded paper (weather resistant)
- Surround material: Cloth sealed
- Suspension: Double
- Xmax: 6mm/0.24in
- Gap depth: 10mm/0.39in
- Voice coil winding width: 22mm/0.87in

**SMALL SIGNAL PARAMETERS**

- Sd: 1134.12cm²/175.79in²
- Fs: 25.2Hz
- Mms: 177.61g/6.27oz
- Qms: 4.750
- Qts: 0.304
- Re: 0.286
- Vas: 408.72l/14.43ft³
- Bi: 22.81Tm
- Cms: 0.23mm²/N
- Rms: 5.92kg/s
- Le (at 1kHz): 1.5mH

**MOUNTING INFORMATION**

- Overall diameter: 452mm/18.2in
- Overall depth: 205mm/8.07in
- Cut-out diameter: 416mm/16.38in
- Mounting slot dimensions: 10mm x 7mm/0.39in x 0.27in
- Number of mounting slots: 8
- Mounting PCD: 429-440mm/16.89-17.32in
- Unit weight: 26.5kg/58.0lb

**PACKED DIMENSIONS & WEIGHT**

- Single pack size (WxDxH): 500mm x 500mm x 240mm
- Single pack weight: 11.5kg/25.3lb
- Multi pack qty: 24
- Multi pack size (WxDxH): 1210mm x 1050mm x 980mm
- Multi pack weight: 265kg/580lb

**PACKED DIMENSIONS & WEIGHT**

- Unit weight: 26.5kg/58.0lb
- Mounting PCD: 429-440mm/16.89-17.32in
- Overall depth: 205mm/8.07in
- Overall diameter: 452mm/18.2in
- Cut-out diameter: 416mm/16.38in
- Mounting slot dimensions: 10mm x 7mm/0.39in x 0.27in
- Number of mounting slots: 8
- Mounting slot width: 500mm/19.7in
- Mounting slot height: 500mm/19.7in
- Mounting slot depth: 240mm/9.4in
- Mounting slot qty: 24
- Mounting PCD width: 500mm/19.7in
- Mounting PCD height: 500mm/19.7in
- Mounting PCD depth: 240mm/9.4in
- Mounting PCD qty: 24
- Multi pack size (WxDxH): 1210mm x 1050mm x 980mm
- Multi pack weight: 265kg/580lb

**FTR18-4080FD**

18-inch, cast aluminium chassis, ferrite magnet
LF driver

- Chassis type: LF cast aluminium NEO
- Magnet type: Ferrite
- Voice coil diameter: 100mm/4in
- Voice coil material: Round copper
- Surround material: Cloth sealed
- Suspension: Double
- Xmax: 6mm/0.24in
- Gap depth: 10mm/0.39in
- Voice coil winding width: 22mm/0.87in

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Measured on axis at 1W, 1m in 2π anechoic environment.
4. Xmax derived from: (voice coil winding width-gap depth)/2.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.
### GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Nominal diameter</td>
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</tr>
<tr>
<td>Power rating</td>
<td>600Wrms</td>
</tr>
<tr>
<td>Continuous power rating</td>
<td>1200W</td>
</tr>
<tr>
<td>EIA power rating</td>
<td>800W</td>
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<tr>
<td>Nominal impedance</td>
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<tr>
<td>Frequency range</td>
<td>30-3.000Hz</td>
</tr>
<tr>
<td>Chassis type</td>
<td>Cast Aluminium</td>
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<tr>
<td>Magnet type</td>
<td>Ferrite</td>
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<td>Magnet weight</td>
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<tr>
<td>Voice coil diameter</td>
<td>100mm/4in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Round Copper</td>
</tr>
<tr>
<td>Former material</td>
<td>Glass fibre</td>
</tr>
<tr>
<td>Cone material</td>
<td>Glass loaded paper (weather resistant)</td>
</tr>
<tr>
<td>Surround material</td>
<td>Cloth sealed</td>
</tr>
<tr>
<td>Suspension</td>
<td>Single</td>
</tr>
<tr>
<td>Xmax</td>
<td>6mm/0.24in</td>
</tr>
<tr>
<td>Gap depth</td>
<td>10mm/0.39in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>22mm/0.87in</td>
</tr>
</tbody>
</table>

### SMALL SIGNAL PARAMETERS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sd</td>
<td>1134.12cm²/175.79in²</td>
</tr>
<tr>
<td>Fs</td>
<td>32.5Hz</td>
</tr>
<tr>
<td>Mms</td>
<td>155.6g/5.49oz</td>
</tr>
<tr>
<td>Qms</td>
<td>4.334</td>
</tr>
<tr>
<td>Qes</td>
<td>0.335</td>
</tr>
<tr>
<td>Qts</td>
<td>0.311</td>
</tr>
<tr>
<td>Re</td>
<td>5.32Ω</td>
</tr>
<tr>
<td>Vas</td>
<td>281.3l/9.93ft³</td>
</tr>
<tr>
<td>Bl</td>
<td>22.48Tm</td>
</tr>
<tr>
<td>Cms</td>
<td>0.15mm/N</td>
</tr>
<tr>
<td>Rms</td>
<td>7.3kg/s</td>
</tr>
<tr>
<td>Le (at 1kHz)</td>
<td>1.25mH</td>
</tr>
</tbody>
</table>

### MOUNTING INFORMATION

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall diameter</td>
<td>452mm/17.8in</td>
</tr>
<tr>
<td>Overall depth</td>
<td>205mm/8.07in</td>
</tr>
<tr>
<td>Cut-out diameter</td>
<td>416mm/16.38in</td>
</tr>
<tr>
<td>Mounting slot dimensions</td>
<td>10mm x 7mm/0.39in x 0.27in</td>
</tr>
<tr>
<td>Number of mounting slots</td>
<td></td>
</tr>
<tr>
<td>Mounting PCD</td>
<td>429-440mm/16.89-17.32in</td>
</tr>
<tr>
<td>Unit weight</td>
<td>9.7kg/21.4lb</td>
</tr>
</tbody>
</table>

### PACKED DIMENSIONS & WEIGHT

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single pack size (WxDxH)</td>
<td>500mm x 500mm x 240mm</td>
</tr>
<tr>
<td>Single pack weight</td>
<td>11.4kg/25.1lb</td>
</tr>
<tr>
<td>Multi pack qty</td>
<td>24</td>
</tr>
<tr>
<td>Multi pack size (WxDxH)</td>
<td>1210mm x 1050mm x 980mm</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>265kg/580lb</td>
</tr>
</tbody>
</table>

### FREQUENCY RESPONSE AND IMPEDANCE CURVES

**FTR18-4080F**

18-inch, cast aluminium chassis, ferrite magnet

**LF driver**

**600Wrms**

(AES standard) power rating

**97dB**

sensitivity

**4-inch**

inside/outside voice coil

- Glass loaded paper cone with weather-resistant impregnation
- Airflow vented magnet assembly for dynamic heat dispersion

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance.
3. Measured on-axis at 1W. 1m in an anechoic environment.
4. Tested as per the EIA-426-A standard.
5. Xmax derived from: (voice coil winding width-gap depth)/2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
**FTR15-4080HDX**

15-inch, cast aluminium chassis, ferrite magnet LF driver

---

**1000Wrms**

(AES standard) power rating

**96dB**

sensitivity

**4-inch**

inside/outside voice coil

- Glass loaded paper cone with weather-resistant impregnation
- Optimised double suspension
- Airflow vented magnet assembly for dynamic heat dispersion

---

**GENERAL SPECIFICATIONS**

Nominal diameter ...................................... 361mm/15in
Power rating\(^1\) ...................................... 1000Wrms
Continuous power rating\(^2\) .......................... 2000W
Nominal impedance ................................... 8Ω
Sensitivity\(^3\) ......................................... 96dB
Frequency range ....................................... 40-2,500Hz
Chassis type ........................................... Cast Aluminium
Magnet type ............................................ Ferrite
Magnet weight ......................................... 3.1kg/110oz
Voice coil diameter ................................... 100mm/4in
Voice coil material ..................................... Round copper
Former material ....................................... Glass fibre
Conical material ....................................... Glass loaded paper (weather resistant)
Surround material ..................................... Cloth sealed
Suspension ............................................... Double
Xmax\(^4\) .............................................. 8mm/0.33in
Gap depth ................................................ 9.5mm/0.37in
Voice coil winding width .............................. 25mm/0.99in

---

**SMALL SIGNAL PARAMETERS\(^5\)**

Sd ...................................................... 655.3cm\(^2\)/132.57in\(^2\)
Fs ....................................................... 60Hz
Mms ..................................................... 147.45g/5.2oz
Qms ..................................................... 3.089
Qes ..................................................... 0.357
Qts ..................................................... 0.320
Re ..................................................... 5.12Ω
Vas ..................................................... 111.2L/3.93ft\(^3\)
Bi ....................................................... 23.07Tm
Cms ..................................................... 0.11mm/N
Rms ..................................................... 13.77kg/s
Le (at 1kHz) ............................................ 1.75mH

---

**MOUNTING INFORMATION**

Overall diameter .................................... 365mm/15.16in
Overall depth ......................................... 180mm/7.08in
Cut-out diameter ..................................... 351mm/13.82in
Mounting slot dimensions ......................... 10mm x 7mm/0.39in x 0.27in
Number of mounting slots ............................ 6
Mounting PCD ......................................... 365-375mm/14.37-14.76in
Unit weight ............................................ 9.7kg/21.4lb

---

**PACKED DIMENSIONS & WEIGHT**

Single pack size (WxDxH) ......................... 435mm x 435mm x 200mm
Single pack weight ................................ 17.1in x 17.1in x 7.9in
11.5kg/25.64lb
Multi pack qty ........................................ 36
Multi pack size (WxDxH) ......................... 1210mm x 1050mm x 980mm
Multi pack weight ................................. 47.6in x 41.3in x 35.4in
380kg/835lb
**FTR15-4080FD**

15-inch, cast aluminium chassis, ferrite magnet
LF driver

**GENERAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal diameter</td>
<td>361mm/15in</td>
</tr>
<tr>
<td>Power rating</td>
<td>1000Wrms</td>
</tr>
<tr>
<td>Continuous power rating</td>
<td>2000W</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>97dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>35-2,500Hz</td>
</tr>
<tr>
<td>Chassis type</td>
<td>Cast Aluminium</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Ferrite</td>
</tr>
<tr>
<td>Magnet weight</td>
<td>3.1kg/110oz</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>100mm/4in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Round copper</td>
</tr>
<tr>
<td>Former material</td>
<td>Glass fibre</td>
</tr>
<tr>
<td>Cone material</td>
<td>Glass loaded paper (weather resistant)</td>
</tr>
<tr>
<td>Surround material</td>
<td>Cloth sealed</td>
</tr>
<tr>
<td>Suspension</td>
<td>Double</td>
</tr>
<tr>
<td>Xmax</td>
<td>6mm/0.24in</td>
</tr>
<tr>
<td>Gap depth</td>
<td>10mm/0.39in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>22mm/0.87in</td>
</tr>
</tbody>
</table>

**SMALL SIGNAL PARAMETERS**

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sd.</td>
<td>855.3cm²/132.57in²</td>
</tr>
<tr>
<td>Fs</td>
<td>35.4Hz</td>
</tr>
<tr>
<td>Mms</td>
<td>127.19g/4.49oz</td>
</tr>
<tr>
<td>Qms</td>
<td>3.913</td>
</tr>
<tr>
<td>Qes</td>
<td>0.3</td>
</tr>
<tr>
<td>Qts</td>
<td>0.28</td>
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<tr>
<td>Re</td>
<td>5.6Ω</td>
</tr>
<tr>
<td>Vas</td>
<td>164.3/5.8ft²</td>
</tr>
<tr>
<td>Bl</td>
<td>23.05Tm</td>
</tr>
<tr>
<td>Cms</td>
<td>0.16mm/N</td>
</tr>
<tr>
<td>Rms</td>
<td>7.26kg/s</td>
</tr>
<tr>
<td>Le (at 1kHz)</td>
<td>1.38mH</td>
</tr>
</tbody>
</table>

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall diameter</td>
<td>385mm/15.1in</td>
</tr>
<tr>
<td>Overall depth</td>
<td>170mm/6.69in</td>
</tr>
<tr>
<td>Cut-out diameter</td>
<td>351mm/13.82in</td>
</tr>
<tr>
<td>Mounting slot dimensions</td>
<td>10mm x 7mm/0.39in x 0.27in</td>
</tr>
<tr>
<td>Number of mounting slots</td>
<td>8</td>
</tr>
<tr>
<td>Mounting PCD</td>
<td>365-375mm/14.37-14.76in</td>
</tr>
<tr>
<td>Unit weight</td>
<td>9.5kg/20.9lb</td>
</tr>
</tbody>
</table>

**PACKED DIMENSIONS & WEIGHT**

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single pack size (WxDxH)</td>
<td>435mm x 435mm x 200mm</td>
</tr>
<tr>
<td>Single pack weight</td>
<td>10.8kg/23.6lb</td>
</tr>
<tr>
<td>Multi pack qty</td>
<td>56</td>
</tr>
<tr>
<td>Multi pack size (WxDxH)</td>
<td>1210mm x 1050mm x 980mm</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>375kg/825lb</td>
</tr>
</tbody>
</table>

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power calculated on minimum impedance. Loudspeaker tested in free air.</td>
<td></td>
</tr>
<tr>
<td>Continuous Power Rating is defined as 3dB greater than the AES rating.</td>
<td></td>
</tr>
<tr>
<td>Measured on axis at 1W, 1m in an anechoic environment.</td>
<td></td>
</tr>
<tr>
<td>Xmax derived from: (voice coil winding width-gap depth)/2.</td>
<td></td>
</tr>
<tr>
<td>Small signal parameters measured after unit subjected to pre-conditioning signal.</td>
<td></td>
</tr>
</tbody>
</table>
600Wrms (AES standard) power rating

97dB sensitivity

4-inch inside/outside voice coil

- Glass loaded paper cone with weather-resistant impregnation
- Airflow vented magnet assembly for dynamic heat dispersion

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (Ω)</th>
<th>Sound Pressure (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>165</td>
<td>110</td>
</tr>
<tr>
<td>50</td>
<td>150</td>
<td>105</td>
</tr>
<tr>
<td>100</td>
<td>145</td>
<td>100</td>
</tr>
<tr>
<td>1k</td>
<td>130</td>
<td>95</td>
</tr>
<tr>
<td>2k</td>
<td>120</td>
<td>90</td>
</tr>
<tr>
<td>5k</td>
<td>110</td>
<td>85</td>
</tr>
<tr>
<td>8k</td>
<td>100</td>
<td>80</td>
</tr>
<tr>
<td>16k</td>
<td>90</td>
<td>75</td>
</tr>
<tr>
<td>32k</td>
<td>80</td>
<td>70</td>
</tr>
<tr>
<td>64k</td>
<td>70</td>
<td>65</td>
</tr>
<tr>
<td>128k</td>
<td>60</td>
<td>60</td>
</tr>
</tbody>
</table>

**GENERAL SPECIFICATIONS**

- Nominal diameter: 381mm/15in
- Power rating: 600Wrms
- EIA power rating: 800W
- Nominal impedance: 8Ω
- Frequency range: 35-3,000Hz
- Chassis type: Cast aluminium
- Magnet type: Ferrite
- Magnet weight: 3.1kg/110oz
- Voice coil diameter: 100mm/4in
- Voice coil material: Round copper
- Former material: Glass fibre
- Cone material: Glass loaded paper (weather resistant)
- Surround material: Cloth sealed
- Suspension: Single
- Xmax: 0.25mm
- Gap depth: 10mm/0.39in
- Voice coil winding width: 22mm/0.87in

**SMALL SIGNAL PARAMETERS**

- Sd: 655.3cm²/132.57in²
- Fs: 58Hz
- Mms: 111.7g/3.94oz
- Qms: 2.655
- Qes: 0.273
- Qts: 0.269
- Re: 5.67Ω
- Vas: 163.11/5.76ft³
- Bl: 23.54Tm
- Cms: 0.16mm²/N
- Rms: 9.34kg/s
- Le (at 1kHz): 1.46mH

**MOUNTING INFORMATION**

- Overall diameter: 385mm/15.16in
- Overall depth: 170mm/6.69in
- Cut-out diameter: 351mm/13.82in
- Mounting slot dimensions: 10mm x 7mm/0.39in x 0.27in
- Number of mounting slots: 8
- Mounting PCD: 365-375mm/14.37-14.76in
- Unit weight: 9.4kg/20.7lb

**PACKED DIMENSIONS & WEIGHT**

- Single pack size (WxDxH): 435mm x 435mm x 200mm
- Single pack weight: 17.1kg/37.6lb
- Multi pack qty: 36
- Multi pack size (WxDxH): 1210mm x 1050mm x 980mm
- Multi pack weight: 375kg/825lb
**FTR15-3070E**

15-inch, cast aluminium chassis, ferrite magnet LF driver

### GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal diameter</td>
<td>361mm/15in</td>
</tr>
<tr>
<td>Power rating</td>
<td>400Wrms</td>
</tr>
<tr>
<td>Continuous power rating</td>
<td>800W</td>
</tr>
<tr>
<td>EIA power rating</td>
<td>500W</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>97dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>40-4,000Hz</td>
</tr>
<tr>
<td>Chassis type</td>
<td>Cast Aluminium</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Ferrite</td>
</tr>
<tr>
<td>Magnet weight</td>
<td>2.3kg/81oz</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>75mm/3in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Round Copper</td>
</tr>
<tr>
<td>Former material</td>
<td>Glass fibre</td>
</tr>
<tr>
<td>Cone material</td>
<td>Glass loaded paper (weather resistant)</td>
</tr>
<tr>
<td>Surround material</td>
<td>Cloth sealed</td>
</tr>
<tr>
<td>Suspension</td>
<td>Single</td>
</tr>
<tr>
<td>Xmax</td>
<td>5.5mm/0.22in</td>
</tr>
<tr>
<td>Gap depth</td>
<td>9mm/0.35in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>20mm/0.79in</td>
</tr>
</tbody>
</table>

### SMALL SIGNAL PARAMETERS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sd</td>
<td>855.3cm²/132.57in²</td>
</tr>
<tr>
<td>Fs</td>
<td>45.9Hz</td>
</tr>
<tr>
<td>Mms</td>
<td>65.53g/3.02oz</td>
</tr>
<tr>
<td>Qms</td>
<td>3.409</td>
</tr>
<tr>
<td>Qes</td>
<td>0.426</td>
</tr>
<tr>
<td>Qts</td>
<td>0.379</td>
</tr>
<tr>
<td>Re</td>
<td>5.52Ω</td>
</tr>
<tr>
<td>VAS</td>
<td>145.75L/5.15ft³</td>
</tr>
<tr>
<td>Bl</td>
<td>17.87Tm</td>
</tr>
<tr>
<td>Cms</td>
<td>0.144mm/N</td>
</tr>
<tr>
<td>Rms</td>
<td>7.23kg/s</td>
</tr>
<tr>
<td>Le (at 1kHz)</td>
<td>121mH</td>
</tr>
</tbody>
</table>

### MOUNTING INFORMATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall diameter</td>
<td>365mm/15.16in</td>
</tr>
<tr>
<td>Overall depth</td>
<td>161mm/6.34in</td>
</tr>
<tr>
<td>Cut-out diameter</td>
<td>351mm/13.82in</td>
</tr>
<tr>
<td>Mounting slot dimensions</td>
<td>10mm x 7mm/0.39in x 0.27in</td>
</tr>
<tr>
<td>Number of mounting slots</td>
<td>8</td>
</tr>
<tr>
<td>Mounting PCD</td>
<td>365-375mm/14.37-14.76in</td>
</tr>
<tr>
<td>Unit weight</td>
<td>6.4kg/14.1lb</td>
</tr>
</tbody>
</table>

### PACKED DIMENSIONS & WEIGHT

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single pack size (WxDxH)</td>
<td>435mm x 435mm x 200mm</td>
</tr>
<tr>
<td>Single pack weight</td>
<td>7.9kg/17lb</td>
</tr>
<tr>
<td>Multi pack qty</td>
<td>56</td>
</tr>
<tr>
<td>Multi pack size (WxDxH)</td>
<td>1210mm x 1050mm x 980mm</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>260kg/570lb</td>
</tr>
</tbody>
</table>

### FREQUENCY RESPONSE AND IMPEDANCE CURVES

- **400Wrms** (AES standard) power rating
- **97dB** sensitivity
- **3-inch** inside/outside voice coil

- Glass loaded paper cone with weather-resistant impregnation
- Airflow vented magnet assembly for dynamic heat dispersion

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Power rating as per the EIA-426-A standard.
4. Measured on axis at 1W, 1m in anechoic environment.
5. Xmax derived from (voice coil winding width-gap depth)/2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.

Also available in 4Ω, data available on request.
**400W rms**

(AES standard)

power rating

**99dB**

sensitivity

**3-inch**

inside/outside

voice coil

- Full gap flux saturation for increased Bl and reduced distortion
- Glass loaded paper cone with weather-resistant impregnation
- Airflow vented magnet assembly for dynamic heat dispersion

---

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>0.43</td>
</tr>
<tr>
<td>50</td>
<td>0.42</td>
</tr>
<tr>
<td>100</td>
<td>0.41</td>
</tr>
<tr>
<td>200</td>
<td>0.40</td>
</tr>
</tbody>
</table>

---

**GENERAL SPECIFICATIONS**

- Nominal diameter: 381mm/15in
- Power rating \(^1\): 400Wrms
- Continuous power rating \(^2\): 800W
- EIA power rating \(^3\): 500W
- Nominal impedance: 8Ω
- Sensitivity \(^4\): 99dB
- Frequency range: 40-6,000Hz
- Chassis type: Cast Aluminium
- Magnet type: Ferrite
- Magnet weight: 2.3kg/81oz
- Voice coil diameter: 75mm/3in
- Voice coil material: Round Copper
- Former material: Glass fibre
- Cone material: Glass loaded paper (weather resistant)
- Surround material: Cloth sealed
- Suspension: Single
- Xmax \(^5\): 3mm/0.12in
- Gap depth: 10mm/0.39in
- Voice coil winding width: 16mm/0.63in

---

**SMALL SIGNAL PARAMETERS**

- Sd: 655.3cm\(^2\)/123.57in\(^2\)
- Fs: 41.4Hz
- Mms: 61.73g/2.28oz
- Qms: 3.510
- Qes: 0.479
- Re: 0.38Ω
- Vas: 187.62l/6.63ft\(^3\)
- Bl: 16.3mT
- Cms: 0.18mm/N
- Rms: 0.05kg/s
- Lc (at 1kHz): 0.59mH

---

**MOUNTING INFORMATION**

- Overall diameter: 385mm/15.16in
- Overall depth: 158mm/6.22in
- Cut-out diameter: 351mm/13.82in
- Number of mounting slots: 8
- Mounting PCD: 365-375mm/14.37-14.76in
- Unit weight: 6.3kg/13.6lb

---

**PACKED DIMENSIONS & WEIGHT**

- Single pack size (WxDxH): 435mm x 435mm x 200mm
- Single pack weight: 7.7kg/17lb
- Multi pack qty: 36
- Multi pack size (WxDxH): 1210mm x 1050mm x 980mm
- Multi pack weight: 260kg/570lb

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Tested as per the EIA-426-A standard.
4. Measured on axis at 1W, 1m in 2\(\pi\) anechoic environment.
5. Xmax derived from: (voice coil winding width-gap depth)/2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
FTR12-4080HDX
12-inch, cast aluminium chassis, ferrite magnet LF driver

**GENERAL SPECIFICATIONS**
- Nominal diameter: 305mm/12in
- Power rating: 1000Wrms
- Continuous power rating: 2000W
- Nominal impedance: 8Ω
- Sensitivity: 93dB
- Frequency range: 47-3,000Hz
- Chassis type: Cast Aluminium
- Magnet type: Ferrite
- Magnet weight: 3.1kg/110oz
- Voice coil diameter: 100mm/4in
- Voice coil material: Round copper
- Former material: Glass fibre
- Cone material: Glass loaded paper (weather resistant)
- Surround material: Cloth sealed
- Suspension: Double
- Xmax: 8mm/0.32in
- Gap depth: 9.5mm/0.37in
- Voice coil winding width: 25mm/0.98in

**SMALL SIGNAL PARAMETERS**
- Sd: 530.93cm²/82.29in²
- Fs: 61Hz
- Mms: 126.3g/0.98in
- Qms: 2.258
- Qes: 0.479
- Qts: 0.395
- Re: 6Ω
- Vas: 21.49ft³/0.76ft³
- BI: 24.63Tm
- Cms: 0.05mm/N
- Rms: 21.44kg/s
- Le (at 1kHz): 1.99mH

**MOUNTING INFORMATION**
- Overall diameter: 313mm/12.3in
- Overall depth: 158mm/6.2in
- Cut-out diameter: 282mm/11.1in
- Number of mounting slots: 5
- Mounting slot dimensions: 10mm x 7mm
- Mounting PCD: 291-301mm/11.7-11.9in
- Unit weight: 9.6kg/21.1lb

**PACKED DIMENSIONS & WEIGHT**
- Single pack size (WxDxH): 350mm x 350mm x 180mm
- Single pack weight: 11.4kg/25.1lb
- Multi pack qty: 36
- Multi pack size (WxDxH): 1210mm x 1050mm x 980mm
- Multi pack weight: 375kg/825lb

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Measured on axis at 1W, 1m in an anechoic environment.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.
**700Wrms**  
(AES standard)  
Power rating

**88dB**  
Sensitivity

**4-inch**  
Inside/outside aluminium voice coil

- Half-roll elastomer surround
- Long excursion: 11.25mm mathematical Xmax
- Glass loaded paper cone with weather-resistant impregnation
- Optimised double suspension
- Airflow vented magnet assembly for dynamic heat dispersion

---

### GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>305mm/12in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power rating</td>
<td>700Wrms</td>
</tr>
<tr>
<td>Continuous power rating</td>
<td>1400W</td>
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<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
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<tr>
<td>Frequency range</td>
<td>20-300Hz</td>
</tr>
<tr>
<td>Chassis type</td>
<td>Cast Aluminium</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Ferrite</td>
</tr>
<tr>
<td>Magnet weight</td>
<td>6.3kg/13.6oz</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>100mm/4in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Round copper</td>
</tr>
<tr>
<td>Former material</td>
<td>Aluminium</td>
</tr>
<tr>
<td>Cone material</td>
<td>Glass loaded paper (weather resistant)</td>
</tr>
<tr>
<td>Surround material</td>
<td>Elastomer</td>
</tr>
<tr>
<td>Suspension</td>
<td>Double</td>
</tr>
<tr>
<td>Xmax</td>
<td>11.25mm/0.44in</td>
</tr>
<tr>
<td>Gap depth</td>
<td>9.5mm/0.37in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>32mm/1.26in</td>
</tr>
</tbody>
</table>

### SMALL SIGNAL PARAMETERS

<table>
<thead>
<tr>
<th>Sd.</th>
<th>530.93cm²/82.29in²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fs.</td>
<td>28.9Hz</td>
</tr>
<tr>
<td>Mms.</td>
<td>176.07g/6.21oz</td>
</tr>
<tr>
<td>Qms.</td>
<td>2.466</td>
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<tr>
<td>Qes.</td>
<td>0.345</td>
</tr>
<tr>
<td>Qts.</td>
<td>0.303</td>
</tr>
<tr>
<td>Re.</td>
<td>6.2Ω</td>
</tr>
<tr>
<td>Vas.</td>
<td>68.6Ω/2.4Ω</td>
</tr>
<tr>
<td>Bi.</td>
<td>24.0Ω</td>
</tr>
<tr>
<td>Cms.</td>
<td>0.17mm²/N</td>
</tr>
<tr>
<td>Rms.</td>
<td>12.97kg/s</td>
</tr>
<tr>
<td>Le (at 1kHz)</td>
<td>2.07mH</td>
</tr>
</tbody>
</table>

### MOUNTING INFORMATION

<table>
<thead>
<tr>
<th>Overall diameter</th>
<th>313mm/12.3in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall depth</td>
<td>169mm/6.7in</td>
</tr>
<tr>
<td>Cut-out diameter</td>
<td>282mm/11.1in</td>
</tr>
<tr>
<td>Mounting slot dimensions</td>
<td>10mm x 7mm/0.399in x 0.279in</td>
</tr>
<tr>
<td>Number of mounting slots</td>
<td>8</td>
</tr>
<tr>
<td>Mounting PCD</td>
<td>281-301mm/11.7-11.9in</td>
</tr>
<tr>
<td>Unit weight</td>
<td>10.2kg/22.4lb</td>
</tr>
</tbody>
</table>

### PACKED DIMENSIONS & WEIGHT

<table>
<thead>
<tr>
<th>Multi pack qty</th>
<th>36</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi pack size (WxDxH)</td>
<td>1210mm x 1050mm x 980mm</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>400kg/880lb</td>
</tr>
</tbody>
</table>

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Measured on axis at 1W, 1m in 2m anechoic environment.
5. Small signal parameters measured after unit subjected to pre-conditioning signal.
**FTR12-3070C**

12-inch, cast aluminium chassis, ferrite magnet bass/mid driver

### GENERAL SPECIFICATIONS
- **Nominal diameter**: 305mm/12in
- **Power rating**: 350Wrms
- **Continuous power rating**: 700W
- **EIA power rating**: 500W
- **Nominal impedance**: 8Ω
- **Sensitivity**: 96dB
- **Frequency range**: 60-4,000Hz
- **Chassis type**: Cast Aluminium
- **Magnet type**: Ferrite
- **Magnet weight**: 2.3kg/8.1oz
- **Voice coil diameter**: 75mm/3in
- **Voice coil material**: Round Copper
- **Former material**: Glass fibre
- **Cone material**: Glass loaded paper (weather resistant)
- **Surround material**: Cloth sealed
- **Suspension**: Single
- **Xmax**: 3mm/0.12in
- **Gap depth**: 10mm/0.4in
- **Voice coil winding width**: 16mm/0.63in

### SMALL SIGNAL PARAMETERS
- **Sd**: 530.93cm²/82.29in²
- **Fs**: 65.1Hz
- **Mms**: 54.61g/1.93oz
- **Qms**: 2.804
- **Qes**: 0.36
- **Qts**: 0.32
- **Re**: 5.59Ω
- **Vas**: 43.71/1.54ft³
- **Bl**: 18.58Tm
- **Cms**: 0.11mm/N
- **Rms**: 7.96kg/s
- **Le (at 1kHz)**: 1.09mH

### MOUNTING INFORMATION
- **Overall diameter**: 318mm/12.5in
- **Overall depth**: 102mm/4.02in
- **Cut-out diameter**: 286mm/11.26in
- **Mounting slot dimensions**: 10mm x 7mm/0.39in x 0.27in
- **Number of mounting slots**: 2
- **Mounting PCD**: 296–304mm/11.7–12in
- **Unit weight**: 6.3kg/13.9lb

### PACKED DIMENSIONS & WEIGHT
- **Single pack size (WxDxH)**: 350mm x 350mm x 180mm
- **Single pack weight**: 13.6in x 13.6in x 7.1in
- **Multi pack qty**: 60
- **Multi pack size (WxDxH)**: 1210mm x 1050mm x 980mm
- **Multi pack weight**: 47.6in x 41.3in x 35.4in

### 350Wrms
*Power rating (AES standard)*

### 96dB
*Sensitivity*

### 3-inch
*inside/outside voice coil*

- Glass loaded paper cone with weather-resistant impregnation
- Airflow vented magnet assembly for dynamic heat dispersion

### FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Measured on axis at 1kHz. 1m in an anechoic environment.
5. Xmax derived from: (voice coil winding width–gap depth)/2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
**FTR12-2565D**

12-inch, cast aluminium chassis, ferrite magnet bass/mid driver

**250W rms**
(AES standard)

**power rating**

**95dB**

sensitivity

**2.5-inch**

round copper

voice coil

---

**GENERAL SPECIFICATIONS**

Nominal diameter ............................... 305mm/12in
Power rating\(^1\) ............................... 250W rms
Continuous power rating\(^2\) ........................ .. 500W
EIA power rating\(^3\) ............................... 400W
Nominal impedance ............................... 8Ω
Sensitivity\(^4\) ............................... 95dB
Frequency range ............................... 55-4,000Hz
Chassis type ............................... Cast Aluminium
Magnet type ............................... Ferrite
Magnet weight ............................... 1.5kg/4.3oz
Voice coil diameter ............................... 64mm/2.5in
Voice coil material ............................... Round Copper
Former material ............................... Glass fibre
Cone material ............................... Kevlar loaded paper
Surround material ............................... Cloth sealed
Suspension ............................... Single
\(X_{\text{max}}\)\(^5\) ............................... 4mm/0.16in
Gap depth ............................... 8mm/0.33in
Voice coil winding width ............................... 16.5mm/0.65in

**SMALL SIGNAL PARAMETERS\(^6\)**

\(S_d\) ............................... 530.98cm\(^2\)/82.3in\(^2\)
\(F_s\) ............................... 60.3Hz
\(M_{\text{rms}}\) ............................... 56.66g/1.99oz
\(Q_{m}\) ............................... 2.404
\(Q_{e}\) ............................... 0.506
\(Q_{t}\) ............................... 0.418
\(R_e\) ............................... 5.63Ω
\(V_{\text{as}}\) ............................... 49.14/1.74Ω\(^2\)
\(B_l\) ............................... 15.45m
\(C_{\text{ms}}\) ............................... 0.12mm/N
\(R_{\text{ms}}\) ............................... 8.91kg/s
\(L_e\) (at 1kHz) ............................... 1.02mH

**MOUNTING INFORMATION**

Overall diameter ............................... 318mm/12.5in
Overall depth ............................... 134mm/5.3in
Cut-out diameter ............................... 286mm/11.26in
Mounting slot dimensions ............................... 10mm x 7mm/0.39in x 0.27in
Number of mounting slots ............................... 8
Mounting PCD ............................... 298-304mm/11.7-12in
Unit weight ............................... 4.5kg/9.9lb

**PACKED DIMENSIONS & WEIGHT**

Multi pack qty ............................... 36
Multi pack size (WxDxH) ............................... 1210mm x 1050mm x 700mm
Multi pack weight ............................... 47.6in x 41.3in x 27.6in
Multi pack weight ............................... 165kg/410lb

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous power rating defined as 3dB greater than the AES rating.
4. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
5. \(X_{\text{max}}\) derived from: (voice coil winding width-gap depth)/2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
**FTR10-2055D**

10-inch, cast aluminium chassis, ferrite magnet mid/bass driver

### GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal diameter</td>
<td>254mm/10in</td>
</tr>
<tr>
<td>Power rating</td>
<td>200W rms</td>
</tr>
<tr>
<td>Continuous power rating</td>
<td>400W</td>
</tr>
<tr>
<td>EIA power rating</td>
<td>350W</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>93.5dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>60-4,000Hz</td>
</tr>
<tr>
<td>Chassis type</td>
<td>Cast Aluminium</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Ferrite</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>50mm/2in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Round Copper</td>
</tr>
<tr>
<td>Former material</td>
<td>Glass fibre</td>
</tr>
<tr>
<td>Cone material</td>
<td>Kevlar loaded paper</td>
</tr>
<tr>
<td>Surround material</td>
<td>Cloth sealed</td>
</tr>
<tr>
<td>Suspension</td>
<td>Single</td>
</tr>
<tr>
<td>Xmax</td>
<td>4mm/0.16in</td>
</tr>
<tr>
<td>Gap depth</td>
<td>8mm/0.33in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>16mm/0.63in</td>
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</table>

### SMALL SIGNAL PARAMETERS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sd</td>
<td>346.36cm²/53.69in²</td>
</tr>
<tr>
<td>Fs</td>
<td>57.5Hz</td>
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<tr>
<td>Mms</td>
<td>35.19g/1.24oz</td>
</tr>
<tr>
<td>Qms</td>
<td>2.734</td>
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<tr>
<td>Qes</td>
<td>0.392</td>
</tr>
<tr>
<td>Qts</td>
<td>0.343</td>
</tr>
<tr>
<td>Re</td>
<td>5.88Ω</td>
</tr>
<tr>
<td>Vas</td>
<td>36.91/1.35ft</td>
</tr>
<tr>
<td>Bi</td>
<td>13.81Tm</td>
</tr>
<tr>
<td>Cms</td>
<td>0.222mm/N</td>
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<tr>
<td>Rms</td>
<td>6.65kg/s</td>
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<tr>
<td>Le (at 1kHz)</td>
<td>0.46mH</td>
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### MOUNTING INFORMATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall diameter</td>
<td>260mm/10.2in</td>
</tr>
<tr>
<td>Overall depth</td>
<td>112mm/4.4in</td>
</tr>
<tr>
<td>Cut-out diameter</td>
<td>232mm/9.1in</td>
</tr>
<tr>
<td>Mounting slot dimensions</td>
<td>6.5mm x 7.5mm/0.26in x 0.29in</td>
</tr>
<tr>
<td>Number of mounting slots</td>
<td>8</td>
</tr>
<tr>
<td>Mounting PCD</td>
<td>244-247mm/9.6-9.7in</td>
</tr>
<tr>
<td>Unit weight</td>
<td>4kg/8.8lb</td>
</tr>
</tbody>
</table>

### PACKED DIMENSIONS & WEIGHT

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi pack qty</td>
<td>36</td>
</tr>
<tr>
<td>Multi pack size (WxDxH)</td>
<td>1080mm x 960mm x 890mm</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>175kg/385lb</td>
</tr>
</tbody>
</table>

### 200W rms

- (AES standard) power rating
- 94dB sensitivity

### 2-inch round copper voice coil

### FREQUENCY RESPONSE AND IMPEDANCE CURVES

[Frequency response and impedance chart]

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Tested as per the EIA-426-A standard.
5. Measured on axis at 1W, 1m in an anechoic environment.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Tested as per the EIA-426-A standard.
5. Measured on axis at 1W, 1m in an anechoic environment.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
200Wrsms
(AES standard)
power rating

94dB
sensitivity

2-inch
round copper
voice coil

• Coated Kevlar-loaded cone for enhanced weather resistance
• Copper sleeved pole reduces HF inductive rise
• Airflow vented magnet assembly for dynamic heat dispersion

GENERAL SPECIFICATIONS
Nominal diameter ........................................ 200mm/8in
Power rating\(^1\) ........................................... 200Wrms
Continuous power rating\(^2\) .................................. 400W
EIA power rating\(^3\) ......................................... 350W
Nominal impedance ........................................ 8\(\Omega\)
Sensitivity\(^4\) .................................................. 93dB
Frequency range .......................................... 70-6,000Hz
Chassis type ............................................... Cast Aluminium
Magnet type ................................................ Ferrite
Magnet weight ............................................ 1.2kg/42oz
Voice coil diameter ..................................... 50mm/2in
Voice coil material ........................................ Round Copper
Former material ......................................... Polyimide
Cone material ............................................. Kevlar loaded paper
Surround material ....................................... Cloth sealed
Suspension ................................................ Single
Xmax\(^5\) ....................................................... 0.12mm/0.037in
Gap depth ................................................... 8mm/0.31in
Voice coil winding width .................................... 15mm/0.59in

SMALL SIGNAL PARAMETERS\(^6\)
Sd .............................................................. 226.98cm\(^2\)/54.16in\(^2\)
Fs .............................................................. 86.1Hz
Mms ......................................................... 27.75g/0.98oz
Qms ........................................................... 2.238
Qes ........................................................... 0.541
Qts ........................................................... 0.435
Re .............................................................. 5.82\(\Omega\)
Vas ........................................................... 8.99\(\Omega/0.32\)\(^3\)
Bl .............................................................. 12.71Tm
Cms ......................................................... 0.12mm/N
Rms .......................................................... 6.73kg/s
Le (at 1kHz) ............................................... 0.36mH

MOUNTING INFORMATION
Overall diameter ......................................... 225mm/8.8in
Overall depth .............................................. 102mm/4in
Cut-out diameter ........................................ 187mm/7.4in
Mounting slot dimensions ................................ Ø6.5mm/0.26in
Number of mounting slots ................................ 8
Mounting PCD ........................................... 210mm/8.3in
Unit weight .................................................. 3.65kg/8lb

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) .......................... 226mm x 226mm x 130mm
Single pack weight .................................... 8.91kg/19.6lb
Multi pack qty .............................................. 8
Multi pack size (WxDxH) ............................ 470mm x 450mm x 270mm
Multi pack weight ..................................... 16.51kg/36.6lb
# Neo magnet pressed steel chassis drivers

**LF PRESSED CHASSIS NEO**

## Neo magnet pressed steel chassis drivers

<table>
<thead>
<tr>
<th>Nominal Diameter</th>
<th>Power Rating*</th>
<th>Nominal Impedance</th>
<th>Sensitivity</th>
<th>Frequency Range</th>
<th>Voice Coil Diameter</th>
<th>Unit Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>TN1530</td>
<td>381mm/15in</td>
<td>300Wrms</td>
<td>8Ω</td>
<td>96dB</td>
<td>40-3,000Hz</td>
<td>75mm/3in</td>
</tr>
<tr>
<td>TN1225</td>
<td>305mm/12in</td>
<td>250Wrms</td>
<td>8Ω</td>
<td>99dB</td>
<td>50-4,000Hz</td>
<td>64mm/2.5in</td>
</tr>
<tr>
<td>TN1020</td>
<td>254mm/10in</td>
<td>150Wrms</td>
<td>8Ω</td>
<td>98dB</td>
<td>65-4,000Hz</td>
<td>50mm/2in</td>
</tr>
<tr>
<td>TN0820</td>
<td>200mm/8in</td>
<td>150Wrms</td>
<td>8Ω</td>
<td>94dB</td>
<td>60-4,000Hz</td>
<td>50mm/2in</td>
</tr>
</tbody>
</table>

*Nominal Power, Nominal Sensitivity, Frequency Range, Voice Coil Diameter, Unit Weight*
TN1530
15-inch pressed steel chassis, neodymium magnet bass/mid driver

GENERAL SPECIFICATIONS
Nominal diameter ........................................... 361mm/15in
Power rating .................................................. 300Wrms
Continuous power rating ............................ 600W
EIA power rating ........................................... 450W
Nominal impedance ........................................ 8Ω
Sensitivity .................................................. 98dB
Frequency range .......................................... 40-3,000Hz
Chassis type ................................................ Pressed Steel
Magnet type ................................................ Neodymium
Voice coil diameter ...................................... 75mm/3in
Voice coil material ........................................ Round Copper
Former material ........................................ Polyimide
Cone material ............................................... Kevlar loaded paper
Surround material ........................................ Cloth sealed
Suspension .................................................. Single
Xmax .......................................................... 3.75mm/0.15in
Gap depth .................................................... 10mm/0.39in
Voice coil winding width ................................ 17.5mm/0.69in

SMALL SIGNAL PARAMETERS
Sd. .............................................................. 855.3cm²/132.57in²
Fs ............................................................... 42.5Hz
Mms .......................................................... 92.58g/3.27oz
Qms .......................................................... 2.619
Qes .......................................................... 0.358
Qts .......................................................... 0.315
Re ............................................................. 5.38Ω
Vas ........................................................... 156.55/5.53ft³
Bl ............................................................. 19.29Tm
Cms .......................................................... 0.15mm/N
Rms .......................................................... 2.45kg/s
Le (at 1kHz) ................................................ 1.11mH

MOUNTING INFORMATION
Overall diameter ......................................... 385mm/15.16in
Overall depth ............................................... 160mm/6.3in
Cut-out diameter .......................................... 352mm/13.86in
Mounting slot dimensions ............................. 9.2mm x 6.2mm/0.36in x 0.24in
Number of mounting slots ................................ 8
Mounting PCD ............................................. 369mm/14.53in
Unit weight ................................................ 2.8kg/6.2lb

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) ............................... 410mm x 410mm x 180mm
Single pack weight ........................................ 1.2kg/2.6lb
Multi pack qty ............................................. 45
Multi pack size (WxDxH) ............................... 1200mm x 1000mm x 980mm
Multi pack weight ........................................ 150kg/330lb

FREQUENCY RESPONSE AND IMPEDANCE CURVES

300Wrms
(AES standard)
power rating
98dB
sensitivity
3-inch round copper voice coil

- Compact, high flux, Dual Magnet Motor design
- Vented cast aluminium heatsink

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Tested as per the IBA-426-A standard.
5. Xmax derived from (voice coil winding width-gap depth)/2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
TN1225
12-inch, pressed steel chassis, neodymium magnet bass/mid driver

250W rms
(AES standard)

power rating

99dB
sensitivity

2.5-inch
round copper
voice coil

- Compact, high flux, Dual Magnet Motor design
- Vented cast aluminium heatsink

GENERAL SPECIFICATIONS

Nominal diameter ........................................ 305mm/12in
Power rating1 ........................................ 250W rms
Continuous power rating2 .................................. 300W
EIA power rating3 ........................................ 400W
Nominal impedance ...................................... 8Ω
Sensitivity4 .................................................. 99dB
Frequency range ......................................... 50-4,000Hz
Chassis type ............................................... Pressed Steel
Magnet type ............................................... Neodymium
Voice coil diameter ...................................... 64mm/2.5in
Voice coil material ....................................... Round Copper
Former material ......................................... Polyimide
Cones material ........................................... Kevlar loaded paper
Surround material ......................................... Cloth sealed
Suspension ................................................ Single
Xmax5 ....................................................... 2.5mm/0.1in
Gap depth ................................................. 8mm/0.32in
Voice coil winding width .................................. 13mm/0.51in

SMALL SIGNAL PARAMETERS

Sd .................................................. 530.93cm²/20.28in²
Fs .................................................. 61.4Hz
Mms ............................................... 42.12g/1.49oz
Qms ............................................... 3.118
Qts ............................................... 0.306
Re .................................................. 5.2Ω
Vas .................................................. 63.69lf/2.25ft³
Bl .................................................. 15.79Tm
Cms ............................................... 0.16mm/N
Rms ............................................... 5.21kg/s
Le (at 1kHz) .......................................... 0.65mH

MOUNTING INFORMATION

Overall diameter ........................................ 309mm/12.17in
Overall depth ........................................ 132mm/5.2in
Cut-out diameter ...................................... 283mm/11.14in
Mounting slot dimensions ................................ ø7.9mm/0.31in
Number of mounting slots ................................ 6
Mounting PCD ......................................... 297mm/11.69in
Unit weight ........................................... 2kg/4.4lb

PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .............................. 330mm x 330mm x 150mm
Single pack weight ................................... 2.4kg/5.3lb
Multi pack qty ......................................... 60
Multi pack size (WxDxH) .............................. 1008mm x 980mm x 860mm
Multi pack weight ................................... 150kg/330lb

FREQUENCY RESPONSE AND IMPEDANCE CURVES

(dB) Sound Pressure ................................. 20 20 20 20 20 20 20 20 20 20 20 20
Impedance (Ω) ........................................ 60 60 60 60 60 60 60 60 60 60 60 60

Topmost curve: Frequency response on axis | Secondary curve: Frequency response at 45° off axis

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Measured on axis at 1W, 1m in 2
4. Le calculated from voice coil winding - gap depth/2
5. Xmax derived from voice coil winding width - gap depth/2
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
GENERAL SPECIFICATIONS
Nominal diameter .......................... 254mm/10in
Power rating\(^1\) ........................... 150Wrms
Continuous power rating\(^3\) .......... 300W
EIA power rating\(^4\) ........................ 250W
Nominal impedance ........................ 8 Ohm
Sensitivity\(^5\) ............................... 98dB
Frequency range ............................ 65-4,000Hz
Chassis type ................................. Pressed Steel
Magnet type ................................ Neodymium
Voice coil diameter ....................... 50mm/2in
Voice coil material ......................... Round Copper
Former material ........................... Polyimide
Cone material ............................... Kevlar loaded paper
Surround material ......................... Cloth sealed
Suspension ................................. Single
Xmax\(^6\) ................................. 0.451in
Gap depth ................................. 6mm/0.24in
Voice coil winding width ................ 12mm/0.47in

SMALL SIGNAL PARAMETERS\(^7\)
Sd. ....................................... 346.36cm/13.63in
Fs ......................................... 95Hz
Mms ....................................... 29.68g/1.05oz
Qms ....................................... 5.164
Qes ....................................... 0.451
Qts ....................................... 0.395
Re ......................................... 5.63Ω
Vas ....................................... 16.011/0.57ft\(^3\)
Bl ......................................... 14.93Tm
Cms ................................. 0.09mm/N
Rms ....................................... 6.63kg/s
Le (at 1kHz) .............................. 0.6mH

MOUNTING INFORMATION
Overall diameter ......................... 256mm/10.08in
Overall depth ............................ 110mm/4.33in
Cut-out diameter ....................... 229mm/9.02in
Mounting slot dimensions ............ 8mm x 6mm/0.31in x 0.24
Number of mounting slots ............ 8
Mounting PCD ........................... 245mm/9.65in
Unit weight ................................ 1.5kg/3.4lb

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) ............ 280mm x 280mm x 120mm
.................. 11in x 11in x 4.7in
Single pack weight ..................... 1.7kg/3.7lb
Multi pack qty ........................... 96
Multi pack size (WxDxH) ............ 1008mm x 880mm x 820mm
.................. 39.7in x 34.6in x 32.3in
Multi pack weight ..................... 200kg/440lb

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Tested as per the EIA-422-A standard.
4. Measured on axis at 1W, 1m in 2in anechoic environment.
5. Xmax derived from (voice coil winding width-gap depth)/2
6. Small signal parameters measured after unit subjected to pre-conditioning signal.

FREQUENCY RESPONSE AND IMPEDANCE CURVES

150Wrms
(AES standard)
power rating

98dB
sensitivity

2-inch
round copper
voice coil

- Compact, high flux, Dual Magnet Motor design
- Vented cast aluminium heatsink
150W rms
(AES standard)

Power rating

94dB
sensitivity

2-inch
round copper
voice coil

- Compact, high flux, Dual Magnet Motor design
- Vented cast aluminium heatsink

8-inch, pressed steel chassis, neodymium magnet mid/bass driver

TN0820

FREQUENCY RESPONSE AND IMPEDANCE CURVES

(dB) Sound Pressure

Impedance (Ω)

Frequency (Hz)

Sensitivity

CONTACT INFORMATION

CONTACT INFORMATION

GENERAL SPECIFICATIONS

Nominal diameter ........................................ 203mm/8in
Power rating¹ ............................................. 150W rms
Continuous power rating³ ......................... 300W
EIA power rating ² .................................. 250W
Nominal impedance ..................................... 8Ω
Sensitivity⁴ ............................................... 94dB
Frequency range .................................... 60-4,000Hz
Chassis type .............................................. Pressed Steel
Magnet type ................................................ Neodymium
Voice coil diameter .................................... 50mm/2in
Voice coil material ....................................... Round Copper
Former material .......................................... Polyimide
Cone material ............................................. Kevlar loaded paper
Surround material ....................................... Cloth sealed
Suspension ................................................ Single
Xmax⁵ ..................................................... 2mm/0.08in
Gap depth .................................................. 8mm/0.32in
Voice coil winding width ............................. 12mm/0.47in

SMALL SIGNAL PARAMETERS⁶

Sd ............................................................... 226.98cm²/35.18in²
Fs ............................................................... 61.9Hz
Mms .......................................................... 21.96g/0.78oz
Qms ......................................................... 1.563
Qts .......................................................... 0.346
Re ............................................................. 5.62Ω
Vas ......................................................... 21.921/0.77ft³
Bl ............................................................. 11.79Tm
Cms ........................................................ 0.3mm/N
Rms ......................................................... 5.47kg/s
Le (at 1kHz) .............................................. 0.63mH

MOUNTING INFORMATION

Overall diameter ......................................... 208mm/8.19in
Overall depth ............................................. 100mm/3.94in
Cut-out diameter ....................................... 183mm/7.2in
Mounting slot dimensions .......................... 9.5mm x 5.5mm/0.37in x 0.22
Number of mounting slots .......................... 8
Mounting PCD .......................................... 196mm/7.72in
Unit weight ............................................... 1.3kg/2.9lb

PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) ......................... 230mm x 230mm x 110mm
Single pack weight ................................ 1.4kg/3.1lb
Multi pack qty .......................................... 120
Multi pack size (WxDxH) ......................... 980mm x 860mm x 640mm
Multi pack weight ................................ 38.6in x 34.6in x 33.1in
Multi pack weight ................................ 190kg/420lb

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Measured on axis at 1W, 1m in an anechoic environment.
5. Xmax derived from: (voice coil winding width x gap depth) / 2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
<table>
<thead>
<tr>
<th>Nominal Diameter</th>
<th>Power Rating*</th>
<th>Nominal Impedance</th>
<th>Sensitivity</th>
<th>Frequency Range</th>
<th>Voice Coil Diameter</th>
<th>Unit Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>TF1830</td>
<td>457mm/18in</td>
<td>500Wrms</td>
<td>4Ω</td>
<td>96dB</td>
<td>35-1,000Hz</td>
<td>75mm/3in</td>
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<tr>
<td>TF1530SL</td>
<td>381mm/15in</td>
<td>350Wrms</td>
<td>4/8Ω</td>
<td>98dB</td>
<td>40-3,000Hz</td>
<td>75mm/3in</td>
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<tr>
<td>TF1530e</td>
<td>381mm/15in</td>
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<td>8Ω</td>
<td>98dB</td>
<td>40-3,000Hz</td>
<td>75mm/3in</td>
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<tr>
<td>TF1530</td>
<td>381mm/15in</td>
<td>400Wrms</td>
<td>8Ω</td>
<td>99dB</td>
<td>40-3,000Hz</td>
<td>75mm/3in</td>
</tr>
<tr>
<td>TF1525e</td>
<td>381mm/15in</td>
<td>300Wrms</td>
<td>4/8Ω</td>
<td>97dB</td>
<td>45-3,500Hz</td>
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<tr>
<td>TF1525</td>
<td>381mm/15in</td>
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<td>8Ω</td>
<td>96dB</td>
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<td>TF1520</td>
<td>381mm/15in</td>
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<td>96dB</td>
<td>45-4,000Hz</td>
<td>50mm/2in</td>
</tr>
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<td>TF1230SL</td>
<td>305mm/12in</td>
<td>350Wrms</td>
<td>4/8Ω</td>
<td>97dB</td>
<td>50-4,000Hz</td>
<td>75mm/3in</td>
</tr>
<tr>
<td>TF1230</td>
<td>305mm/12in</td>
<td>350Wrms</td>
<td>8Ω</td>
<td>96dB</td>
<td>50-4,000Hz</td>
<td>75mm/3in</td>
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<tr>
<td>TF1225e</td>
<td>305mm/12in</td>
<td>300Wrms</td>
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<td>94dB</td>
<td>45-3,000Hz</td>
<td>75mm/3in</td>
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<td>TF1225</td>
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<td>250Wrms</td>
<td>8Ω</td>
<td>96dB</td>
<td>50-3,000Hz</td>
<td>64mm/2.5in</td>
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<tr>
<td>TF1220</td>
<td>305mm/12in</td>
<td>150Wrms</td>
<td>8Ω</td>
<td>97dB</td>
<td>60-4,000Hz</td>
<td>50mm/2in</td>
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<td>TF1218</td>
<td>305mm/12in</td>
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<td>8Ω</td>
<td>97dB</td>
<td>60-4,000Hz</td>
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<td>TF1020</td>
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<td>4/8Ω</td>
<td>97dB</td>
<td>60-3,000Hz</td>
<td>50mm/2in</td>
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<td>96dB</td>
<td>70-6,000Hz</td>
<td>44mm/1.75in</td>
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<td>TF0818</td>
<td>203mm/8in</td>
<td>100Wrms</td>
<td>4/8/16Ω</td>
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<td>70-6,000Hz</td>
<td>44mm/1.75in</td>
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<td>TF0818MR</td>
<td>203mm/8in</td>
<td>100Wrms</td>
<td>8Ω</td>
<td>99dB</td>
<td>800-5,000Hz</td>
<td>44mm/1.75in</td>
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<tr>
<td>TF0615</td>
<td>152mm/6in</td>
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<td>8Ω</td>
<td>95dB</td>
<td>85-6,000Hz</td>
<td>38mm/1.5in</td>
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<tr>
<td>TF0615MR</td>
<td>152mm/6in</td>
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<td>8Ω</td>
<td>97dB</td>
<td>500-5,000Hz</td>
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<tr>
<td>TF0510</td>
<td>127mm/5in</td>
<td>30Wrms</td>
<td>8Ω</td>
<td>91dB</td>
<td>130-8,000Hz</td>
<td>25mm/1in</td>
</tr>
<tr>
<td>TF0510MR</td>
<td>127mm/5in</td>
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<td>8Ω</td>
<td>93dB</td>
<td>400-8,000Hz</td>
<td>25mm/1in</td>
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<tr>
<td>TF0410MR</td>
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<td>25mm/1in</td>
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<tr>
<td>K12H-200TC</td>
<td>305mm/12in</td>
<td>200Wrms</td>
<td>8Ω</td>
<td>98dB</td>
<td>50-10,000Hz</td>
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<tr>
<td>K12H-100TC</td>
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<td>100Wrms</td>
<td>8Ω</td>
<td>97dB</td>
<td>50-10,000Hz</td>
<td>45mm/1.75in</td>
</tr>
</tbody>
</table>
**NEW**

TF1830

18-inch pressed steel chassis, ferrite magnet subwoofer

**GENERAL SPECIFICATIONS**
- Nominal diameter: 467mm/18in
- Power rating: 500W
- Continuous power rating: 1000W
- EIA power rating: 650W
- Nominal impedance: 4Ω
- Sensitivity: 96dB
- Frequency range: 35-1,000Hz
- Chassis type: Pressed Steel
- Magnet type: Ferrite
- Magnet weight: 1.8kg/65oz
- Voice coil diameter: 75mm/3in
- Voice coil material: Round copper
- Former material: Glass loaded paper with weather resistant impregnation
- Surround material: Cloth sealed
- Suspension: Single
- Xmax: 4.5mm/0.18in
- Gap depth: 8mm/0.31in
- Voice coil winding width: 17mm/0.67in

**SMALL SIGNAL PARAMETERS**
- Sd: 1134.12cm²/175.79in²
- Fs: 35.7Hz
- Mms: 179.11g/6.32oz
- Qms: 0.423
- Qts: 0.393
- Re: 2.58Ω
- Vas: 202.4l/7.15ft³
- Bl: 15.46Tm
- Cms: 0.11mm²/N
- Rms: 9.63kg/s
- Le (at 1kHz): 1.28mH

**MOUNTING INFORMATION**
- Overall diameter: 460mm/18.11in
- Overall depth: 209mm/8.22in
- Cut-out diameter: 421mm/16.57in
- Mounting slot dimensions: Ø8.3mm/0.32in
- Number of mounting slots: 8
- Mounting PCD range: 44.3mm/1.76in
- Unit weight: 7.5kg/16.5lb

**PACKED DIMENSIONS & WEIGHT**
- Single pack size (WxDxH): 500mm x 500mm x 255mm
- Single pack weight: 9kg/19.8lb
- Multi pack qty: 24
- Multi pack size (WxDxH): 1200mm x 1000mm x 980mm
- Multi pack weight: 205kg/452lb

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

- Topmost curve: Frequency response on axis
- Secondary curve: Frequency response at 45° off axis

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1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Tested as per the EIA-426-A standard.
4. Measured on axis at 1W, 1m in an anechoic environment.
5. Xmax derived from: [voice coil winding width - gap depth]/2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
**TF1530SL**

15-inch pressed steel chassis, ferrite magnet base/mid driver

---

**GENERAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal diameter</td>
<td>381mm/15in</td>
</tr>
<tr>
<td>Power rating¹</td>
<td>350Wrms</td>
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<tr>
<td>Continuous power rating²</td>
<td>700W</td>
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<tr>
<td>EIA power rating³</td>
<td>500W</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>98dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>40-3,000Hz</td>
</tr>
<tr>
<td>Chassis type</td>
<td>Pressed Steel</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Ferrite</td>
</tr>
<tr>
<td>Magnet weight</td>
<td>1.7kg/3.6oz</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>75mm/3in</td>
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<tr>
<td>Voice coil material</td>
<td>Round copper</td>
</tr>
<tr>
<td>Former material</td>
<td>Polyimide</td>
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<tr>
<td>Cone material</td>
<td>Kevlar loaded paper</td>
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<tr>
<td>Surround material</td>
<td>Cloth sealed</td>
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<tr>
<td>Suspension</td>
<td>Single</td>
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<tr>
<td>Xmax⁵</td>
<td>4mm/0.16in</td>
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<tr>
<td>Gap depth</td>
<td>8mm/0.31in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>16mm/0.63in</td>
</tr>
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**SMALL SIGNAL PARAMETERS⁶**

<table>
<thead>
<tr>
<th>Parameter</th>
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<tbody>
<tr>
<td>Sd.</td>
<td>855.3cm²/132.57in²</td>
</tr>
<tr>
<td>Fs.</td>
<td>40.2Hz</td>
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<tr>
<td>Mms.</td>
<td>87.7g/3.09oz</td>
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<tr>
<td>Qms.</td>
<td>3.060</td>
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<tr>
<td>Qes.</td>
<td>0.446</td>
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<tr>
<td>Qts.</td>
<td>0.389</td>
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<tr>
<td>Re.</td>
<td>5.07Ω</td>
</tr>
<tr>
<td>Vas.</td>
<td>140.081/4.95ft</td>
</tr>
<tr>
<td>Bl.</td>
<td>17.01Tm</td>
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<tr>
<td>Cms.</td>
<td>0.14mm/N</td>
</tr>
<tr>
<td>Rms.</td>
<td>6.32kg/s</td>
</tr>
<tr>
<td>Le (at 1kHz)</td>
<td>0.99mH</td>
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</table>

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Overall diameter</td>
<td>385mm/15.16in</td>
</tr>
<tr>
<td>Overall depth</td>
<td>161mm/6.34in</td>
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<tr>
<td>Cut-out diameter</td>
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<tr>
<td>Mounting slot dimensions</td>
<td>9.4mm x 6.2mm/0.37in x 0.24in</td>
</tr>
<tr>
<td>Number of mounting slots.</td>
<td>8</td>
</tr>
<tr>
<td>Mounting PCD range</td>
<td>369mm/14.57in</td>
</tr>
<tr>
<td>Unit weight</td>
<td>5kg/11lb</td>
</tr>
</tbody>
</table>

**PACKED DIMENSIONS & WEIGHT**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi pack qty</td>
<td>45</td>
</tr>
<tr>
<td>Multi pack size (WxDxH)</td>
<td>1200mm x 1000mm x 980mm</td>
</tr>
<tr>
<td></td>
<td>47.2in x 39.4in x 38.6in</td>
</tr>
<tr>
<td>Multi pack weight</td>
<td>265kg/585lb</td>
</tr>
</tbody>
</table>

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. EIA Power Rating is defined as 3dB greater than the AES rating.
4. Measured on axis at 1W, 1m in 2π anechoic environment.
5. Xmax derived from (voice coil winding width - gap depth)/2
6. Small signal parameters measured after unit subjected to pre-conditioning signal.

---

- Airflow vented magnet assembly for dynamic heat dispersion
- Compact, high flux, Dual Magnet Motor design

---

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

[Graph showing frequency response and impedance curves]
TF1530e
15-inch pressed steel chassis, ferrite magnet bass/mid driver

GENERAL SPECIFICATIONS
Nominal diameter ........................................... 361mm/15in
Power rating 1 ........................................... 400Wrms
Continuous power rating 2 ................................... 800W
EIA power rating 3 ........................................... 550W
Nominal impedance ........................................... 8Ω
Sensitivity 4 ........................................... 98dB
Frequency range ........................................... 40-3,000Hz
Chassis type ........................................... Pressed Steel
Magnet type ........................................... Ferrite
Magnet weight ........................................... 2.44kg/6.77lbs
Voice coil diameter ........................................... 75mm/3in
Voice coil material ........................................... Edgewound copper clad aluminium
Former material ........................................... Glass fibre
Cone material ........................................... Kevlar loaded paper
Surround material ........................................... Cloth sealed
Suspension ........................................... Single
Xmax 5 ........................................... 4.5mm/0.18in
Gap depth ........................................... 6mm/0.31in
Voice coil winding width ....................................... 17mm/0.67in

SMALL SIGNAL PARAMETERS 5
Sd. ........................................... 655.3cm²/123.57in²
Fs ........................................... 43.6Hz
Mms ........................................... 71.94g/2.54oz
Qms ........................................... 2.757
Qes ........................................... 0.373
Qts ........................................... 0.328
Re ........................................... 5.46Ω
Vas ........................................... 191.62/6.77ft³
BI ........................................... 17.03m
Cms ........................................... 0.19mm/N
Rms ........................................... 7.15kg/s
Le (at 1kHz) ........................................... 0.79mH

MOUNTING INFORMATION
Overall diameter ........................................... 361mm/15.16in
Overall depth ........................................... 161mm/6.34in
Cut-out diameter ........................................... 352mm/13.86in
Mounting slot dimensions ........................................... 9.4mm x 6.2mm/0.37in x 0.24in
Number of mounting slots ........................................... 6
Mounting PCD range ........................................... 369mm/14.57in
Unit weight ........................................... 6.5kg/14.3lbs

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) ........................................... 410mm x 410mm x 180mm
Single pack weight ........................................... 16.11lb x 16.11lb x 7.11lb
Multi pack qty ........................................... 45
Multi pack size (WxDxH) ........................................... 1200mm x 1000mm x 980mm
Multi pack weight ........................................... 47.2in x 39.4in x 38.6in

FREQUENCY RESPONSE AND IMPEDANCE CURVES

400Wrms
(AES standard)
power rating
98dB
sensitivity
3-inch
edgewound copper clad aluminium voice coil

1. Tested for two hours using a continuous band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Tested as per the EIA-426-A standard
4. Measured on axis at 2W, 1m in 21 cubic anechoic environment.
5. Xmax derived from: (voice coil winding width – gap depth)/2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
**TF1530**

15-inch pressed steel chassis, ferrite magnet bass/mid driver

**400 Wrms**
(AES standard)

**power rating**

**99dB**

sensitivity

**3-inch**

round copper voice coil

---

**GENERAL SPECIFICATIONS**

Nominal diameter .................................. 381mm/15in
Power rating\(^1\) .................................. 400Wrms
Continuous power rating\(^2\) ...................... 800W
EIA power rating\(^3\) ................................. 550W
Nominal impedance ................................ 8Ω
Sensitivity\(^4\) ...................................... 99dB
Frequency range .................................. 40–3,000Hz
Chassis type ........................................ Pressed Steel
Magnet type ......................................... Ferrite
Magnet weight ...................................... 2.44kg/8.6oz
Voice coil diameter ................................. 75mm/3in
Voice coil material ................................ Round copper
Former material ..................................... Polyimide
Cone material ....................................... Kevlar loaded paper
Surround material .................................. Cloth sealed
Suspension .......................................... Single
\(X_{\text{max}}\) ........................................ 2mm/0.08in
Gap depth .......................................... 8mm/0.31in
Voice coil winding width ......................... 12mm/0.47in

**SPECIAL SIGNAL PARAMETERS**

- **Sd** ............................................. 955.3cm\(^2\)/132.57in\(^2\)
- **Fs** ............................................. 42Hz
- **Mms** .......................................... 91.63g/3.23oz
- **Qms** ........................................... 2.728
- **Qes** ........................................... 0.313
- **Qts** ........................................... 0.281
- **Re** ........................................... 5.62Ω
- **Vas** ........................................... 162.2 in\(^3\)/5.73 ft\(^3\)
- **Bl** ............................................. 21.22 Tm
- **Cms** .......................................... 0.16 mm\(\text{N}/\text{m}\)
- **Rms** .......................................... 6.87 kg/s
- **Le** ............................................. 0.096 mH

**MOUNTING INFORMATION**

Overall diameter .................................. 381mm/15.16in
Overall depth ....................................... 163mm/6.42in
Cut-out diameter .................................. 352mm/13.86in
Mounting slot dimensions ...................... 9.2mm x 6.2mm/0.36in x 0.24in
Number of mounting slots ....................... 45
Mounting PCD range ............................... 369mm/14.56in
Unit weight ........................................ 6.9kg/15.2lb

**PACKED DIMENSIONS & WEIGHT**

- **Single pack size (WxDxH)** ................. 410mm x 410mm x 180mm
- **Single pack weight** ........................... 16.1kg/17.6lb
- **Multi pack qty** ................................ 45
- **Mult pack size (WxDxH)** .................... 1200mm x 1000mm x 980mm
- **Multi pack weight** ........................... 345kg/760lb

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Tested as per the EIA-426-A standard.
5. Max derived from voice coil winding width-gap depth/2
6. Small signal parameters measured after unit subjected to pre-conditioning signal.

---

Also available in 4Ω, data available on request.
TF1525e
15-inch pressed steel chassis, ferrite magnet bass/mid driver

GENERAL SPECIFICATIONS
Nominal diameter .................................. 361mm/15in
Power rating 1 .................................. 300Wrms
Continuous power rating 2 .................... 600W
EIA power rating 3 .................................. 450W
Nominal impedance .................................. 8Ω
Sensitivity 4 .................................. 97dB
Frequency range .................................. 45-3,500Hz
Chassis type .................................. Pressed Steel
Magnet type .................................. Ferrite
Magnet weight .................................. 1.4kg/50oz
Voice coil diameter .................................. 64mm/2.5in
Voice coil material .................................. Edgewound copper
Former material ................................. Glass fibre
Cone material .................................. Kevlar loaded paper
Surround material .................................. Cloth sealed
Suspension .................................. Single
Xmax 5 .................................. 3.5mm/0.14in
Gap depth .................................. 6mm/0.31in
Voice coil winding width .................................. 14.5mm/0.57in

SMALL SIGNAL PARAMETERS 6
Sd. .................................. 855.3cm²/132.57in²
Fs .................................. 47.5Hz
Mms .................................. 62.07g/2.19oz
Qms .................................. 4.486
Qes .................................. 0.529
Qts .................................. 0.473
Re .................................. 6.82Ω
Vas .................................. 141.77l/5.01ft³
Bl .................................. 17.78Tm
Cms .................................. 0.14mm/N
Rms .................................. 5.46kg/s
Le (at 1kHz) .................................. 1.31mH

MOUNTING INFORMATION
Overall diameter .................................. 365mm/15.16in
Overall depth .................................. 163mm/6.42in
Cut-out diameter .................................. 352mm/13.86in
Mounting slot dimensions .................................. 9.2mm x 6.2mm/0.36in x 0.24in
Number of mounting slots .................................. 8
Mounting PCD range .................................. 36mm/1.46in
Unit weight .................................. 4.8kg/10.6lb

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) .......................... 410mm x 410mm x 180mm
Single pack weight .................................. 5.5kg/12.1lb
Multi pack qty .................................. 4.5
Multi pack size (WxDxH) .......................... 1200mm x 1000mm x 980mm
Multi pack weight .................................. 24.5kg/51.5lb

300W rms
(AES standard)
Power rating
97dB
Sensitivity
2.5-inch
edgewound copper voice coil

FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Tested as per the EIA-426-A standard.
4. Measured on axis at 1W, 1m in an anechoic environment.
5. Xmax derived from: (voice coil winding width-gap depth)/2
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
Also available in 4Ω, data available on request.
**250Wrms**
(AES standard)

**98dB**
sensitivity

**2.5-inch**
round copper

**voice coil**

---

**TF1525**

15-inch pressed steel chassis, ferrite magnet bass/mid driver

---

**GENERAL SPECIFICATIONS**

- **Nominal diameter**: 361mm/15in
- **Power rating**: 250Wrms
- **Continuous power rating**: 500W
- **EIA power rating**: 400W
- **Nominal impedance**: 8Ω
- **Sensitivity**: 98dB
- **Frequency range**: 40-3,000Hz
- **Chassis type**: Pressed Steel
- **Magnet type**: Ferrite
- **Magnet weight**: 1.2kg/2.6lb
- **Voice coil diameter**: 64mm/2.5in
- **Voice coil material**: Round copper
- **Former material**: Polyimide
- **Cone material**: Kevlar loaded paper
- **Surround material**: Cloth sealed
- **Suspension**: Single
- **Xmax**: 2.5mm/0.1in
- **Gap depth**: 8mm/0.31in
- **Voice coil winding width**: 13mm/0.51in

**SMALL SIGNAL PARAMETERS**

- **Sd**: 655.3cm²/132.57in²
- **Fs**: 47.6Hz
- **Mms**: 77.93g/2.75oz
- **Qms**: 3.835
- **Qes**: 0.565
- **Qts**: 0.693
- **Re**: 5.15Ω
- **Vas**: 148.41L/5.24ft³
- **BL**: 14.57Tm
- **Cms**: 0.14mm²/N
- **Cms**: 6.08kg/s
- **Le (at 1kHz)**: 0.9mH

**MOUNTING INFORMATION**

- **Overall diameter**: 365mm/15.16in
- **Overall depth**: 153mm/6.02in
- **Cut-out diameter**: 351mm/13.82in
- **Mounting slot dimensions**: 9.2mm x 6.2mm/0.36in x 0.24in
- **Number of mounting slots**: 8
- **Mounting PCD range**: 369mm/14.56in
- **Unit weight**: 5.2kg/11.5lb

**PACKED DIMENSIONS & WEIGHT**

- **Single pack size (WxDxH)**: 410mm x 410mm x 180mm
  - **Single pack weight**: 6kg/13.2lb
- **Multi pack qty**: 65
- **Multi pack size (WxDxH)**: 1200mm x 1000mm x 980mm
  - **Multi pack weight**: 270kg/595lb

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Measured on-axis at 1W, 1m in 2
4. Tested as per the EIA-426-A standard.
5. Sd derived from: (voice coil winding width-gap-depth)/2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
**TF1520**

15-inch pressed steel chassis, ferrite magnet bass/mid driver

---

**GENERAL SPECIFICATIONS**
- Nominal diameter: 381mm/15in
- Power rating: 150Wrms
- Continuous power rating: 300W
- EI power rating: 250W
- Nominal impedance: 8Ω
- Sensitivity: 96dB
- Frequency range: 45-4,000Hz
- Chassis type: Pressed Steel
- Magnet type: Ferrite
- Magnet weight: 1.1kg/40oz
- Voice coil diameter: 50mm/2in
- Voice coil material: Round copper
- Former material: Polyimide
- Cone material: Kevlar loaded paper
- Surround material: Cloth sealed
- Suspension: Single
- $X_{\text{max}}$: 3mm/0.12in
- Gap depth: 8mm/0.24in
- Voice coil winding width: 14.5mm/0.57in

**SMALL SIGNAL PARAMETERS**
- $S_d$: 855.3cm$^2$/132.57in$^2$
- $F_s$: 54.9Hz
- $M_{\text{rms}}$: 65.49g/2.31oz
- $Q_{\text{ms}}$: 5.165
- $Q_{\text{es}}$: 0.64
- $Q_{\text{ts}}$: 0.723
- $R_e$: 5.79Ω
- $V_{\text{as}}$: 132.981/4.7ft$^3$
- $B_{\text{I}}$: 12.46Tm
- $C_{\text{ms}}$: 0.13mm/N
- $R_{\text{ms}}$: 4.37kg/s
- $L_e (at \ 1\text{kHz})$: 0.6mH

**MOUNTING INFORMATION**
- Overall diameter: 385mm/15.16in
- Overall depth: 158mm/6.22in
- Cut-out diameter: 352mm/13.86in
- Mounting slot dimensions: 9.4mm x 6.3mm/0.37in x 0.25in
- Number of mounting slots: 8
- Mounting PCD range: 370mm/14.57in
- Unit weight: 5kg/11lb

**PACKED DIMENSIONS & WEIGHT**
- Single pack size (WxDxH): 410mm x 410mm x 180mm
- Single pack weight: 5.5kg/12.1lb
- Multi pack qty: 4
- Multi pack size (WxDxH): 750mm x 340mm x 440mm
- Multi pack weight: 22kg/48lb

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Measured on-axis at 1W. 1m in an anechoic environment.
5. $X_{\text{max}}$ derived from: (voice coil winding width-gap depth)$\div$2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.

---

150Wrms (AES standard) power rating
96dB sensitivity

2-inch round copper voice coil
TF1230SL
12-inch pressed steel chassis, ferrite magnet bass/mid driver

350Wrms (AES standard)
- power rating
97dB
- sensitivity
3-inch round copper voice coil

- Airflow vented magnet assembly for dynamic heat dispersion
- Compact, high flux, Dual Magnet Motor design

FREQUENCY RESPONSE AND IMPEDANCE CURVES

FREQUENCY RESPONSE AND IMPEDANCE CURVES

T opmost curve: Frequency response on axis | Secondary curve: Frequency response at 45° off axis

GENERAL SPECIFICATIONS

Nominal diameter ........................................... 305mm/12in
Power rating 1 ............................................. 350Wrms
Continuous power rating 2 .................................. 700W
EIA Power rating 3 ......................................... 500W
Nominal impedance ........................................... 8Ω
Sensitivity ....................................................... 97dB
Frequency range ........................................... 50-4,000Hz
Chassis type ..................................................... Pressed Steel
Magnet type ..................................................... Ferrite
Magnet weight .................................................. 1.7kg/60oz
Voice coil diameter ......................................... 75mm/3in
Voice coil material ........................................... Round copper
Former material .............................................. Polyimide
Cone material ................................................ Kevlar loaded paper
Surround material .......................................... Cloth sealed
Suspension ..................................................... Single
Xmax 4 .......................................................... 4mm/0.16in
Gap depth ....................................................... 8mm/0.31in
Voice coil winding width .................................. 16mm/0.63in

SMALL SIGNAL PARAMETERS 5,6
Sd .................. 530.93cm²/82.29in²
Fs .................. 50.8Hz
Mms .................. 58.32g/2.06oz
Qms .................. 3.635
Qes .................. 0.437
Qts .................. 0.390
Re .................. 5.17Ω
Vas .................. 53.76L/1.9ft³
Bl .................. 15.68Tm
Cms .................. 0.14mm/N
Rms .................. 5.72kg/s
Le (at 1kHz) .................. 0.89mH

MOUNTING INFORMATION
Overall diameter ........................................... 309mm/12.17in
Overall depth ............................................ 137mm/5.43in
Cut-out diameter ......................................... 283mm/11.14in
Mounting slot dimensions ................................ Ø79mm/3.1in
Number of mounting slots ................................ 4
Mounting PCD range ..................................... 297mm/11.68in
Unit weight ................................................... 4.3kg/9.5lb

PACKED DIMENSIONS & WEIGHT
Multi pack qty ..................................................... 60
Multi pack size (WxDxH) .................................... 1080mm x 980mm x 880mm
..................................................... 42.5in x 38.6in x 34.6in
Multi pack weight ........................................... 265kg/620lb

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Tested as per the EIA-426-A standard
5. Voice coil winding width - gap depth/2
6. Small signal parameters measured after unit subjected to pre-conditioning signal.

Also available in 4Ω, data available on request.
### TF1230S
12-inch, pressed steel chassis, ferrite magnet bass/mid driver

#### 300Wrms
(AES standard) power rating

#### 96dB
sensitivity

#### 3-inch
edgewound CCA voice coil

- Increased chassis diameter for compatibility with popular portable two-way reinforcement systems

### General Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal diameter</td>
<td>305mm/12in</td>
</tr>
<tr>
<td>Power rating</td>
<td>300Wrms</td>
</tr>
<tr>
<td>EIA power rating</td>
<td>450W</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>96dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>50-4,000Hz</td>
</tr>
<tr>
<td>Chassis type</td>
<td>Pressed Steel</td>
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<td>Magnet type</td>
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<td>Magnet weight</td>
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<td>Voice coil diameter</td>
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<td>Voice coil material</td>
<td>Edgewound copper clad aluminium</td>
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<td>Former material</td>
<td>Polyimide</td>
</tr>
<tr>
<td>Cone material</td>
<td>Kevlar loaded paper</td>
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<tr>
<td>Surround material</td>
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<tr>
<td>Suspension</td>
<td>Single</td>
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<tr>
<td>Xmax</td>
<td>4.5mm/0.18in</td>
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<tr>
<td>Gap depth</td>
<td>8mm/0.31in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>17mm/0.67in</td>
</tr>
</tbody>
</table>

### Small Signal Parameters

- **Sd**: 530.93cm²/21.29in²
- **Fs**: 60.3Hz
- **Mms**: 51.08g/1.82oz
- **Qms**: 3.28
- **Qes**: 0.422
- **Qts**: 0.374
- **Re**: 5.98Ω
- **Vas**: 5.44/.1.92ft³
- **BI**: 16.56Tm
- **Cms**: 0.14mm²/N
- **Rms**: 5.91k/s
- **Le (at 1kHz)**: 0.98mH

### Mounting Information

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall diameter</td>
<td>317.5mm/12.5in</td>
</tr>
<tr>
<td>Overall depth</td>
<td>137mm/5.43in</td>
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<tr>
<td>Cut-out diameter</td>
<td>263mm/11.14in</td>
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<tr>
<td>Mounting slot dimensions</td>
<td>13mm x 6.5mm/0.51in x 0.26in</td>
</tr>
<tr>
<td>Number of mounting slots</td>
<td>8</td>
</tr>
<tr>
<td>Mounting PCD range</td>
<td>299mm/11.77in</td>
</tr>
<tr>
<td>Unit weight</td>
<td>4.3kg/9.5lb</td>
</tr>
</tbody>
</table>

### Packed Dimensions & Weight

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single pack size (WxDxH)</td>
<td>330mm x 330mm x 150mm</td>
</tr>
<tr>
<td>Single pack weight</td>
<td>5kg/11lb</td>
</tr>
</tbody>
</table>

### Frequency Response and Impedance Curves

- Topmost curve: Frequency response on axis
- Secondary curve: Frequency response at 45° off axis

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Tested as per the EIA-122-A standard.
4. Measured on axis at 1W, 1m in an anechoic environment.
5. Xmax derived from (voice coil winding width-gap depth)/2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
TF1230
12-inch pressed steel chassis, ferrite magnet bass/mid driver

350Watts (AES standard) power rating

94dB sensitivity

3-inch round copper voice coil

- Airflow vented magnet assembly for dynamic heat dispersion

FREQUENCY RESPONSE AND IMPEDANCE CURVES
(dB) Sound Pressure | Impedance (Ω)
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>55</td>
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<td>105</td>
<td>200</td>
</tr>
<tr>
<td>110</td>
<td>205</td>
</tr>
</tbody>
</table>

Nominal Specifications
- Nominal diameter: 305mm/12in
- Power rating: 350Watts
- Continuous power rating: 700W
- EIA power rating: 500W
- Nominal impedance: 8Ω
- Frequency range: 45-3,000Hz
- Chassis type: Pressed Steel
- Magnet type: Ferrite
- Magnet weight: 1.4kg/3.1lbs
- Voice coil diameter: 75mm/3in
- Voice coil material: Round copper
- Former material: Polyimide
- Cone material: Kevlar loaded paper
- Surround material: Cloth sealed
- Suspension: Single
- Xmax: 5mm/0.197in
- Gap depth: 8mm/0.315in
- Voice coil winding width: 17.5mm/0.69in

Small Signal Parameters
- Sd: 530.93cm²/82.29in²
- Fs: 59Hz
- Mms: 56.66g/2.01oz
- Qms: 2.44
- Qes: 0.652
- Qts: 0.515
- Re: 5.19Ω
- Vas: 51.12l/1.81ft³
- Bl: 12.96Tm
- Cms: 0.13mm/N
- Rms: 8.6kg/s
- Le (at 1kHz): 1.33mH

Mounting Information
- Overall diameter: 309mm/12.17in
- Overall depth: 140mm/5.51in
- Cut-out diameter: 283mm/11.14in
- Mounting slot dimensions: 97.9mm/3.85in
- Number of mounting slots: 4
- Mounting PCD range: 297mm/11.69in
- Unit weight: 4.3kg/9.46lb

Packaged Dimensions & Weight
- Single pack size (WxDxH): 330mm x 330mm x 150mm
- Single pack weight: 9kg/19.6lb
- Multi pack qty: 60
- Multi pack size (WxDxH): 1080mm x 980mm x 860mm
- Multi pack weight: 265kg/586lb
**300W rms**
(AES standard)
**96dB**
sensitivity

**2.5-inch**
edgewound copper voice coil

---

### GENERAL SPECIFICATIONS
- **Nominal diameter**: 305mm/12 in
- **Power rating**: 300W rms
- **Continuous power rating**: 600W
- **EIa power rating**: 450W
- **Nominal impedance**: 8Ω
- **Sensitivity**: 96dB
- **Frequency range**: 20-3000Hz
- **Chassis type**: Pressed Steel
- **Magnet type**: Ferrite
- **Magnet weight**: 1.4kg/50oz
- **Voice coil diameter**: 64mm/2.5in
- **Voice coil material**: Edgewound copper
- **Former material**: Polyimide
- **Cone material**: Kevlar loaded paper
- **Surround material**: Cloth sealed
- **Suspension**: Single
- **Xmax**: 3.5mm/0.14in
- **Gap depth**: 8mm/0.31in
- **Voice coil winding width**: 14.5mm/0.57in

### SMALL SIGNAL PARAMETERS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sd.</td>
<td>530.93cm²/82 29in²</td>
</tr>
<tr>
<td>Fs</td>
<td>52.6Hz</td>
</tr>
<tr>
<td>Mms</td>
<td>54.01g/1.91oz</td>
</tr>
<tr>
<td>Qms</td>
<td>3.513</td>
</tr>
<tr>
<td>Qes</td>
<td>0.368</td>
</tr>
<tr>
<td>Qt.</td>
<td>0.333</td>
</tr>
<tr>
<td>Re</td>
<td>6.42Ω</td>
</tr>
<tr>
<td>Vas.</td>
<td>67.71/2.39ft³</td>
</tr>
<tr>
<td>Bl</td>
<td>17.66Tm</td>
</tr>
<tr>
<td>Cms</td>
<td>0.17mm/N</td>
</tr>
<tr>
<td>Rms</td>
<td>5.08kg/s</td>
</tr>
<tr>
<td>Le (at 1kHz)</td>
<td>1.32mH</td>
</tr>
</tbody>
</table>

### MOUNTING INFORMATION
- **Overall diameter**: 309mm/12.17in
- **Overall depth**: 139mm/5.47in
- **Cut-out diameter**: 263mm/10.36in
- **Mounting slot dimensions**: ø7.9mm/0.31in
- **Number of mounting slots**: 4
- **Mounting PCD range**: 297mm/11.69in
- **Unit weight**: 4.4kg/9.7lb

### PACKED DIMENSIONS & WEIGHT
- **Single pack size (WxDxH)**: 330mm x 330mm x 150mm
- **Single pack weight**: 5kg/11lb
- **Multi pack qty**: 60
- **Multi pack size (WxDxH)**: 1080mm x 980mm x 880mm
- **Multi pack weight**: 290kg/638lb

---

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Tested as per the EIa-426-A standard.
4. Number of mounting slots.
5. Tested as per the EIa-426-A standard.
6. Measured on axis at 1W, 1m in 1m anechoic environment.
7. Small signal parameters measured after unit subjected to pre-conditioning signal.

---

**TF1225e**
12-inch pressed steel chassis, ferrite magnet bass/mid driver
**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>165</td>
</tr>
<tr>
<td>50</td>
<td>155</td>
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<tr>
<td>100</td>
<td>145</td>
</tr>
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<td>200</td>
<td>135</td>
</tr>
<tr>
<td>500</td>
<td>125</td>
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<tr>
<td>1000</td>
<td>115</td>
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<tr>
<td>2000</td>
<td>105</td>
</tr>
<tr>
<td>5000</td>
<td>95</td>
</tr>
<tr>
<td>10000</td>
<td>85</td>
</tr>
</tbody>
</table>

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Tested as per the EIA-426-A standard.
4. Measured on axis at 1W, 1m in 2n anechoic environment.
5. X_{max} derived from voice coil winding width - gap depth / 2
6. Small signal parameters measured after unit subjected to pre-conditioning signal

Also available in 4Ω, data available on request

**TF1225**
12-inch pressed steel chassis, ferrite magnet
bass/mid driver

**GENERAL SPECIFICATIONS**
- Nominal diameter: 305mm/12in
- Power rating¹: 250Wmms
- Continuous power rating²: 500W
- EIA power rating³: 400W
- Impedance (Ω): 8Ω
- Sensitivity³: 97dB
- Frequency range: 50-4,000Hz
- Chassis type: Pressed Steel
- Magnet type: Ferrite
- Magnet weight: 1.2kg/4.2oz
- Voice coil diameter: 305mm/12in
- Voice coil material: Round copper
- Former material: Polyimide
- Cone material: Kevlar loaded paper
- Surround material: Cloth sealed
- Suspension: Single
- X_{max}²: 2.5mm/0.1in
- Gap depth: 8mm/0.31in
- Voice coil winding width: 13mm/0.51in

**SMALL SIGNAL PARAMETERS**³
- Sd: 530.93cm²/62.29in²
- Fs: 55.6Hz
- Mms: 46.52g/1.71oz
- Qms: 3.112
- Qts: 0.42
- Re: 5.08Ω
- Vas: 67.27l/2.38ft³
- B1: 14.32Tm
- Cms: 0.17mm/N
- Rms: 5.45kg/s
- Le (at 1kHz): 0.66mH

**MOUNTING INFORMATION**
- Overall diameter: 309mm/12.17in
- Overall depth: 310mm/12.14in
- Cut-out diameter: 265mm/10.47in
- Mounting slot dimensions: ø7.9mm/0.31in
- Number of mounting slots: 4
- Mounting PCD range: 297mm/11.69in
- Unit weight: 4.1kg/9lb

**PACKED DIMENSIONS & WEIGHT**
- Single pack size (WxDxH): 330mm x 380mm x 340mm
- Single pack weight: 4.6kg/10.1lb
- Multi pack qty: 60
- Multi pack size (WxDxH): 1080mm x 980mm x 880mm
- Multi pack weight: 280kg/615lb

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Tested as per the EIA-426-A standard.

---

**PACKED DIMENSIONS & WEIGHT**

- Single pack size (WxDxH): 330mm x 380mm x 340mm
- Single pack weight: 4.6kg/10.1lb
- Multi pack qty: 60
- Multi pack size (WxDxH): 1080mm x 980mm x 880mm
- Multi pack weight: 280kg/615lb
TF1220
12-inch pressed steel chassis, ferrite magnet bass/mid driver

GENERAL SPECIFICATIONS
Nominal diameter ............................................ 305mm/12in
Power rating1 .................................................. 150W rms
Continuous power rating1 ................................. 300W
EIA power rating1 ............................................ 250W
Nominal impedance .......................................... 8Ω
Sensitivity1 ..................................................... 97dB
Frequency range .......................................... 60-4,000Hz
Chassis type .................................................. Pressed Steel
Magnet type ................................................... Ferrite
Magnet weight ............................................... 1.2kg/2.64oz
Voice coil diameter ........................................ 50mm/2in
Voice coil material .......................................... Round copper
Former material ............................................. Polyimide
Cone material ................................................ Kevlar loaded paper
Surround material ......................................... Cloth sealed
Suspension .................................................... Single
Xmax2 .......................................................... 2mm/0.08in
Gap depth ...................................................... 6mm/0.24in
Voice coil winding width .................................. 12mm/0.47in

SMALL SIGNAL PARAMETERS3
Sd ........ 530.93cm²/82.29in²
Fs ......... 55.8Hz
Mms .......... 44.51g/0.99oz
Qms ............ 3.327
Qes .............. 0.464
Qts .............. 0.389
Re .............. 5.46Ω
Vas .......... 72.79/v/2.57ft³
Bl ............. 13.91Tm
Cms ........... 0.18mm/N
Rms ........... 4.69kg/s
Le (at 1kHz) .... 0.71mH

MOUNTING INFORMATION
Overall diameter ........................................... 309mm/12.17in
Overall depth ............................................... 131mm/5.16in
Cut-out diameter ......................................... 283mm/11.14in
Mounting slot dimensions ................................ 79mm/3.11in
Number of mounting slots ................................ 4
Mounting PCD range ...................................... 297mm/11.69in
Unit weight .................................................... 4kg/8.8lb

PACKED DIMENSIONS & WEIGHT
Single pack size (WxDxH) .................................. 330mm x 330mm x 150mm
Single pack weight ........................................ 4.5kg/9.9lb
Multi pack qty .............................................. 60
Multi pack size (WxDxH) ................................... 1080mm x 980mm x 880mm
...................................................... 42.5in x 38.6in x 34.6in
Multi pack weight ........................................... 275kg/600lb

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Tested as per the EIA-426-A standard.
4. Measured on axis at 1W. 1m in 20in anechoic environment.
5. Xmax derived from: (voice coil winding width-gap depth)/2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.

FREQUENCY RESPONSE AND IMPEDANCE CURVES

150W rms (AES standard) power rating
97dB sensitivity
2-inch round copper voice coil

Topmost curve: Frequency response on axis | Secondary curve: Frequency response at 45° off axis
**TF1218**

12-inch pressed steel chassis, ferrite magnet bass/mid driver

---

**100Wrms**

(AES standard)

power rating

**97dB**

sensitivity

**1.75-inch**

round copper voice coil

---

**GENERAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>305mm/12in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power rating(^1)</td>
<td>100Wrms</td>
</tr>
<tr>
<td>Continuous power rating(^2)</td>
<td>200W</td>
</tr>
<tr>
<td>EIA power rating(^3)</td>
<td>150W</td>
</tr>
<tr>
<td>Nominal impedance</td>
<td>8Ω</td>
</tr>
<tr>
<td>Sensitivity(^4)</td>
<td>97dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>60-4,500Hz</td>
</tr>
<tr>
<td>Chassis type</td>
<td>Pressed Steel</td>
</tr>
<tr>
<td>Magnet type</td>
<td>Ferrite</td>
</tr>
<tr>
<td>Magnet weight</td>
<td>0.88kg/31oz</td>
</tr>
<tr>
<td>Voice coil diameter</td>
<td>44mm/1.75in</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Round copper</td>
</tr>
<tr>
<td>Former material</td>
<td>Polyimide</td>
</tr>
<tr>
<td>Cone material</td>
<td>Kevlar loaded paper</td>
</tr>
<tr>
<td>Surround material</td>
<td>Cloth sealed</td>
</tr>
<tr>
<td>Suspension</td>
<td>Single</td>
</tr>
<tr>
<td>Xmax(^5)</td>
<td>2mm/0.08in</td>
</tr>
<tr>
<td>Gap depth</td>
<td>6mm/0.24in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>10mm/0.39in</td>
</tr>
</tbody>
</table>

**SMALL SIGNAL PARAMETERS** \(^6\)

| Sd | 530.93cm\(^2/82.89in\(^2\) |
| Fs | 59Hz |
| Mms | 35g/1.23oz |
| Qms | 3.344 |
| Qes | 0.059 |
| QtS | 0.516 |
| Re | 5.93Ω |
| Vas | 83.04/2.93ft\(^3\) |
| Bl | 11.27m |
| Cms | 0.21mm/N |
| Rms | 3.88kg/s |
| Le (at 1kHz) | 0.62mH |

**MOUNTING INFORMATION**

| Overall diameter | 309mm/12.17in |
| Overall depth | 125mm/4.92in |
| Cut-out diameter | 285mm/11.14in |
| Number of mounting slots | 4 |
| Mounting PCD range | 297mm/11.69in |
| Unit weight | 2.7kg/6lb |

**PACKED DIMENSIONS & WEIGHT**

| Single pack size (WxDxH) | 330mm x 330mm x 150mm |
| Single pack weight | 3.5kg/7.7lb |
| Multi pack qty | 60 |
| Multi pack size (WxDxH) | 1080mm x 980mm x 860mm |
| Multi pack weight | 42.5in x 38.6in x 34.6in |
| Multi pack weight | 195kg/430lb |

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Measured as per the EIA-426-A standard.
4. Xmax derived from: (voice coil winding width-gap depth)/2.
5. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
**TF1020**

10-inch pressed steel chassis, ferrite magnet mid/bass driver

**GENERAL SPECIFICATIONS**

Nominal diameter .................................................. 254mm/10in
Power rating ¹ .................................................. 150Wrms
Continuous power rating ² ........................................ 300W
EIA power rating ³ .................................................. 250W
Nominal impedance .................................................. 8Ω
Sensitivity ⁴ .................................................. 97dB
Frequency range .................................................. 60-3,000Hz
Chassis type .................................................. Pressed Steel
Magnet type .................................................. Ferrite
Magnet weight .................................................. 1.2kg/2.65lb
Voice coil diameter .................................................. 50mm/2in
Voice coil material .................................................. Round copper
Former material .................................................. Polyimide
Cone material .................................................. Kevlar loaded paper
Surround material .................................................. Cloth sealed
Suspension .................................................. Single
Xmax ⁵ .................................................. 2.45mm/0.09in
Gap depth .................................................. 8mm/0.31in
Voice coil winding width ........................................ 12mm/0.47in

**SMALL SIGNAL PARAMETERS**

Sd. .................................................. 34.63cm²/53.69in²
Fs .................................................. 69.4Hz
Mms .................................................. 31.1g/1.1oz
Qms .................................................. 2.454
Qes .................................................. 0.372
Qts .................................................. 0.323
Re .................................................. 5.45Ω
Vas .................................................. 28.7L/1.02ft³
B1 .................................................. 14.1Tm
Cms .................................................. 0.17mm/N
Rms .................................................. 3.52kg/s
Le (at 1kHz) .................................................. 0.6mH

**MOUNTING INFORMATION**

Overall diameter .................................................. 256mm/10.08in
Overall depth .................................................. 110mm/4.33in
Cut-out diameter .................................................. 229mm/9.02in
Mounting slot dimensions ........................................ 8mm x 8mm x 0.31in x 0.24in
Number of mounting slots ........................................ 4
Mounting PCD range ................................................ 245mm/9.65in
Unit weight .................................................. 3.7kg/8.2lb

**PACKED DIMENSIONS & WEIGHT**

Single pack size (WxDxH) ........................................ 280mm x 280mm x 120mm
Single pack weight .................................................. 4.2kg/9.2lb
Multi pack qty .................................................. 96
Multi pack size (WxDxH) ........................................ 1080mm x 660mm x 840mm
Multi pack weight .................................................. 390kg/860lb

**150Wrms**

(AES standard) power rating

**97dB**

sensitivity

**2-inch**

round copper voice coil

---

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

- Topmost curve: Frequency response on axis
- Secondary curve: Frequency response at 45° off axis

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Tested as per the EIA-426-A standard.
5. Measured on axis at 1W, 1m in 0° in anechoic environment.
6. Xmax derived from: (voice coil winding width - gap depth) / 2

Also available in 4Ω, data available on request.
100Wrms (AES standard) power rating

96dB sensitivity

1.75-inch round copper voice coil

**GENERAL SPECIFICATIONS**

- Nominal diameter: 254mm/10in
- Power rating: 100Wrms
- Continuous power rating: 200W
- EIA power rating: 150W
- Nominal impedance: 8Ω
- Sensitivity: 96dB
- Frequency range: 70-6,000Hz
- Chassis type: Pressed Steel
- Magnet type: Ferrite
- Magnet weight: 0.88kg/31oz
- Voice coil diameter: 44mm/1.75in
- Voice coil material: Round copper
- Former material: Polyimide
- Cone material: Kevlar loaded paper
- Surround material: Cloth sealed
- Suspension: Single
- Xmax: 2mm/0.08in
- Gap depth: 6mm/0.24in
- Voice coil winding width: 10mm/0.39in

**SMALL SIGNAL PARAMETERS**

- Sd: 346.30cm²/53.69in²
- Fs: 70.1Hz
- Mms: 25.91g/0.91oz
- Qms: 0.493
- Qes: 0.409
- Re: 5.48Ω
- Vas: 33.61/l.19ft³
- Bl: 11.59Tm
- Cms: 0.2mm/N
- Rms: 4.7kg/s
- Le (at 1kHz): 0.5mH

**MOUNTING INFORMATION**

- Overall diameter: 256mm/10.08in
- Overall depth: 102mm/4.02in
- Cut-out diameter: 229mm/9.02in
- Mounting slot dimensions: 0.31in x 0.24in
- Number of mounting slots: 4
- Mounting PCD range: 245mm/9.69in
- Unit weight: 2.4kg/5.3lb

**PACKED DIMENSIONS & WEIGHT**

- Single pack size: 280mm x 280mm x 120mm
- Single pack weight: 3kg/6.6lb
- Multi pack qty: 9
- Multi pack size: 1080mm x 860mm x 840mm
- Multi pack weight: 265kg/585lb

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Measured on axis at 1W, 1m in 2anechoic environment.
5. Xmax derived from voice coil winding width-gap depth/2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
**TF0818**

8-inch pressed steel chassis, ferrite magnet mid/bass driver

---

**GENERAL SPECIFICATIONS**

- **Nominal diameter**: 203mm/8in
- **Power rating**: 100Wrms
- **Continuous power rating**: 200W
- **EIA power rating**: 150W
- **Nominal impedance**: 8Ω
- **Sensitivity**: 94dB
- **Frequency range**: 70-6,000Hz
- **Chassis type**: Pressed Steel
- **Magnet type**: Ferrite
- **Magnet weight**: 0.88kg/31oz
- **Voice coil diameter**: 44mm/1.75in
- **Voice coil material**: Round copper
- **Former material**: Polyimide
- **Cone material**: Kevlar loaded paper
- **Surround material**: Cloth sealed
- **Suspension**: Single
- **Xmax**: 3.5mm/0.14in
- **Gap depth**: 6mm/0.24in
- **Voice coil winding width**: 13mm/0.51in

---

**SMALL SIGNAL PARAMETERS**

- **Sd.**: 226.96cm²/35.18in²
- **Fs.**: 100Hz
- **Mms.**: 19.57g/0.69oz
- **Qms.**: 3.311
- **Qes.**: 0.493
- **Qts.**: 0.429
- **Re.**: 6.72Ω
- **Vas.**: 9.441l/0.33ft³
- **Bl.**: 12.95Tm
- **Cms.**: 0.13mm/N
- **Rms.**: 3.72kg/s
- **Le (at 1kHz)**: 0.75mH

---

**MOUNTING INFORMATION**

- **Overall diameter**: 208mm/8.19in
- **Overall depth**: 99mm/3.54in
- **Cut-out diameter**: 183mm/7.2in
- **Mounting slot dimensions**: 9.5mm x 5.5mm/0.37in x 0.22in
- **Number of mounting slots**: 4
- **Mounting PCD range**: 195-199mm/7.66-7.83in
- **Unit weight**: 2.3kg/5.1lb

---

**PACKED DIMENSIONS & WEIGHT**

- **Single pack size (WxDxH)**: 230mm x 230mm x 110mm
  - **Single pack weight**: 19.1in x 9.1in x 4.3in
- **Single pack weight**: 2.8kg/6.2lb
- **Multi pack qty**: 16Q

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Tested as per the EIA-426-A standard.
5. Measured on axis at 1W, 1m in an anechoic environment.
6. Xmax derived from: (voice coil winding width-gap depth)/2

---

100Wrms (AES standard) power rating

94dB sensitivity

1.75-inch round copper voice coil

---

**PACKED DIMENSIONS & WEIGHT**

- **Single pack size (WxDxH)**: 1070mm x 650mm x 860mm
  - **Single pack weight**: 42.1in x 33.5in x 33.9in
- **Multi pack weight**: 350kg/770lb

---

**FREQUENCY RESPONSE AND IMPEDANCE CURVES**

---

Topmost curve: Frequency response on axis | Secondary curve: Frequency response at 45° off axis
**TF0818MR**

8-inch pressed steel chassis, ferrite magnet midrange driver

**100Wrms**

(AES standard)

**power rating**

**99dB**

**sensitivity**

**1.75-inch**

**round copper voice coil**

- Closed back midrange unit

---

**GENERAL SPECIFICATIONS**

- Nominal diameter: 203mm/8in
- Power rating\(^1\): 100Wrms
- Continuous power rating\(^2\): 200W
- EIA power rating\(^3\): 150W
- Nominal impedance: 8Ω
- Sensitivity\(^4\): 99dB
- Frequency range: 800-5,000Hz
- Chassis type: Pressed Steel
- Magnet type: Ferrite
- Magnet weight: 0.57kg/20oz
- Voice coil diameter: 44mm/1.75in
- Voice coil material: Round copper
- Former material: Polyimide
- Cone material: Kevlar loaded paper
- Surround material: Treated paper
- Suspension: Single
- Xmax.: n/a
- Gap depth: n/a
- Voice coil winding width: n/a

**SMALL SIGNAL PARAMETERS**

- Sd.: n/a
- Fs.: 453Hz
- Mms.: n/a
- Qms.: n/a
- Qes.: n/a
- Qts.: n/a
- Re.: 6.63Ω
- Vas.: n/a
- Bl.: n/a
- Cms.: n/a
- Rms.: n/a
- Rms.: n/a
- Le (at 1kHz): 0.33mH

**MOUNTING INFORMATION**

- Overall diameter: 208mm/8.19in
- Overall depth: 65mm/3.35in
- Cut-out diameter: 183mm/7.2in
- Mounting slot dimensions: 9.5mm x 5.5mm/0.37in x 0.22in
- Number of mounting slots: 4
- Mounting PCD range: 195-199mm/7.68-7.83in
- Unit weight: 1.9kg/4.2lb

**PACKED DIMENSIONS & WEIGHT**

- Single pack size (WxDxH): 230mm x 230mm x 110mm
- Single pack weight: 19.1kg/42.7lb
- Multi pack qty: 160
- Multi pack size (WxDxH): 1070mm x 650mm x 860mm
- Multi pack weight: 42.1kg/93.0lb

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Tested as per the EIA-429-A standard.
4. Measured on axis at 1W, 1m in 2n anechoic environment.
**TF0615**

6-inch pressed steel chassis, ferrite magnet mid/bass driver

### GENERAL SPECIFICATIONS
- Nominal diameter: 152mm/6in
- Power rating: 100Wrms
- Continuous power rating: 200W
- EIA power rating: 150W
- Nominal impedance: 8Ω
- Sensitivity: 94dB
- Frequency range: 65-6,000Hz
- Chassis type: Pressed Steel
- Magnet type: Ferrite
- Magnet weight: 0.468kg/17oz
- Voice coil diameter: 38mm/1.5in
- Voice coil material: Round copper
- Former material: Polyimide
- Cone material: Kevlar loaded paper
- Surround material: Cloth sealed
- Small signal parameters measured after unit subjected to pre-conditioning signal.
- Xmax derived from: (voice coil winding width-gap depth)/2.
- Tested as per the EIA-426-A standard
- Continuous Power Rating is defined as 3dB greater than the AES rating.
- Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.

### SMALL SIGNAL PARAMETERS
- Sd: 153.94cm²/23.86in²
- Fs: 106.7Hz
- Mms: 12.09g/0.43oz
- Qms: 3.949
- Qes: 0.719
- Qts: 0.608
- Re: 7.08Ω
- Vas: 6411/0.23ft³
- Bl: 8.85Tm
- Cms: 0.19mm/N
- Rms: 2.01kg/s
- Le (at 1kHz): 0.47mH

### MOUNTING INFORMATION
- Overall diameter: 178mm/7.01in
- Overall depth: 74mm/2.91in
- Cut-out diameter: 147mm/5.79in
- Mounting slot dimensions: ø 4.3mm/0.17in × 4
- Number of mounting slots: 4
- Mounting PCD range: 168.5mm/6.63in
- Unit weight: 1.4kg/3.1lb

### PACKED DIMENSIONS & WEIGHT
- Single pack size (WxDxH): 190mm x 200mm x 90mm
- Single pack weight: 2kg/4.4lb

### FREQUENCY RESPONSE AND IMPEDANCE CURVES
- Topmost curve: Frequency response on axis
- Secondary curve: Frequency response at 45° off axis

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Tested as per the EIA-426-A standard.
4. Measured on axis at 1W, 1m in an anechoic environment.
5. Xmax derived from: (voice coil winding width-gap depth)/2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
**TF0615MR**
6-inch pressed steel chassis, ferrite magnet midrange driver

- **50Wrms** (AES standard) power rating
- **97dB** sensitivity
- **1.5-inch** round copper voice coil

- Closed back midrange unit

---

**GENERAL SPECIFICATIONS**

- Nominal diameter: 152mm/6in
- Power rating: 50Wrms
- Continuous power rating: 100W
- EIA power rating: 75W
- Nominal impedance: 8Ω
- Sensitivity: 97dB
- Frequency range: 500-5,000Hz
- Chassis type: Pressed Steel
- Magnet type: Ferrite
- Magnet weight: 0.48kg/17oz
- Voice coil diameter: 38mm/1.5in
- Voice coil material: Round copper
- Former material: Polyimide
- Cone material: Kevlar loaded paper
- Surround material: Treated paper
- Suspension: Single
- Xmax: n/a
- Gap depth: n/a
- Voice coil winding width: n/a

---

**SMALL SIGNAL PARAMETERS**

- Sd: n/a
- Fs: 553Hz
- Mms: n/a
- Qms: n/a
- Qes: n/a
- Qts: n/a
- Re: 5.53Ω
- Vas: n/a
- Bl: n/a
- Cms: n/a
- Rms: n/a
- Le [at 1kHz]: 0.29mH

---

**MOUNTING INFORMATION**

- Overall diameter: 178mm/6.15in
- Overall depth: 74mm/2.91in
- Cut-out diameter: 147mm/5.79in
- Mounting slot dimensions: ø4.3mm/0.17in
- Number of mounting slots: 4
- Mounting PCD range: 168.5mm/6.63in
- Unit weight: 1.4kg/3.1lb

---

**PACKED DIMENSIONS & WEIGHT**

- Single pack size (WxDxH): 190mm x 200mm x 90mm
- Single pack weight: 2kg/4.4lb
- Multi pack qty: 160
- Multi pack size (WxDxH): 1070mm x 650mm x 860mm
- Multi pack weight: 220kg/485lb
**TF0510**

5-inch pressed steel chassis, ferrite magnet mid/bass driver

### GENERAL SPECIFICATIONS
- **Nominal diameter**: 127mm/5in
- **Power rating**: 30W rms
- **Continuous power rating**: 60W
- **EIA power rating**: 50W
- **Nominal impedance**: 8Ω
- **Sensitivity**: 93dB
- **Frequency range**: 130-8,000Hz
- **Chassis type**: Pressed Steel
- **Magnet type**: Ferrite
- **Magnet weight**: 0.37kg/13oz
- **Voice coil diameter**: 25mm/1in
- **Voice coil material**: Round copper
- **Former material**: Polyimide
- **Cone material**: Kevlar loaded paper
- **Surround material**: Cloth sealed
- **Suspension**: Single
- **Xmax**: 1.1mm/0.04in
- **Gap depth**: 5mm/0.2in
- **Voice coil winding width**: 7.3mm/0.29in

### SMALL SIGNAL PARAMETERS
- **Sd.**: 78.54cm²/12.17in²
- **Fs**: 128.1Hz
- **Mms**: 7.02g/0.25oz
- **Qms**: 2.376
- **Qes**: 0.768
- **Qts**: 0.6580
- **Re**: 6.32Ω
- **Vs**: 7.38l/0.26ft³
- **Bf**: 6.82Tm
- **Cms**: 0.22mm²/N
- **Rms**: 2.38kg/s
- **Le (at 1kHz)**: 0.35mH

### MOUNTING INFORMATION
- **Overall diameter**: 136mm x 151mm/5.35in x 5.94in
- **Overall depth**: 68mm/2.68in
- **Cut-out diameter**: 117mm/4.61in
- **Mounting slot dimensions**: ø 4.5mm/0.18in
- **Number of mounting slots**: 4
- **Mounting PCD range**: 140mm/5.51in
- **Unit weight**: 1kg/2.2lb

### PACKED DIMENSIONS & WEIGHT
- **Single pack size (WxDxH)**: 170mm x 180mm x 70mm
- **Single pack weight**: 6.7kg/14.8lb
- **Multi pack qty**: 12
- **Multi pack size (WxDxH)**: 320mm x 550mm x 190mm
- **Multi pack weight**: 15kg/33lb

### FREQUENCY RESPONSE AND IMPEDANCE CURVES

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Measured as per the EIA-426-A standard.
5. Xmax derived from: (voice coil winding width - gap depth)/2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.

---

**30W rms**
(AES standard) power rating

**91dB**
sensitivity

**1-inch**
round copper voice coil
**30Wrms**

(AES standard)

**power rating**

**93dB**

sensitivity

**1-inch**

round copper voice coil

---

**TOPMOST CURVE:**

- Frequency response on axis

**SECONDARY CURVE:**

- Frequency response at 45° off axis

---

**GENERAL SPECIFICATIONS**

- Nominal diameter: 127mm/5in
- Power rating: 30Wrms
- Continuous power rating: 60W
- EIA power rating: 50W
- Nominal impedance: 8Ω
- Sensitivity: 93dB
- Frequency range: 400-8,000Hz
- Chassis type: Pressed Steel
- Magnet type: Ferrite
- Magnet weight: 0.37kg/13oz
- Voice coil diameter: 25mm/1in
- Voice coil material: Round copper
- Former material: Polyimide
- Cone material: Kevlar loaded paper
- Surround material: Treated paper
- Suspension: Single
- Xmax: n/a
- Gap depth: n/a
- Voice coil winding width: n/a

---

**SMALL SIGNAL PARAMETERS**

- Sd.: n/a
- Fs: 482Hz
- Mms: n/a
- Qms: n/a
- Qes: n/a
- Qts.: n/a
- Re: 7.87Ω
- Vas.: n/a
- BI: n/a
- Cms.: n/a
- Rms.: n/a
- Le: 0.2mH

---

**MOUNTING INFORMATION**

- Overall diameter: 136mm x 151mm/5.35in x 5.94
- Overall depth: 68mm/2.68in
- Cut-out diameter: 117mm/4.61in
- Mounting slot dimensions: 0.45mm/0.18in
- Number of mounting slots: 4
- Mounting PCD range: 140mm/5.51in
- Unit weight: 1.1kg/2.4lb

---

**PACKED DIMENSIONS & WEIGHT**

- Single pack size (WxDxH): 170mm x 180mm x 70mm
- Single pack size: 6.7in x 7.1in x 2.8in
- Single pack weight: 1.7kg/3.7lb
- Multi pack qty: 12
- Multi pack size (WxDxH): 320mm x 550mm x 190mm
- Multi pack weight: 18kg/40lb

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Tested as per the EIA-426-A standard.
4. Measured on axis at 1W, 1m in an anechoic environment.
**TF0410MR**
4-inch pressed steel chassis, ferrite magnet midrange driver

### GENERAL SPECIFICATIONS
- **Nominal diameter**: 100mm/4in
- **Power rating**: 30Wrms
- **Continuous power rating**: 60W
- **EIA power rating**: 50W
- **Nominal impedance**: 8Ω
- **Sensitivity**: 90dB
- **Frequency range**: 400-10000Hz
- **Chassis type**: Pressed Steel
- **Magnet type**: Ferrite
- **Magnet weight**: 0.37kg/13oz
- **Voice coil diameter**: 25mm/1in
- **Voice coil material**: Round copper
- **Former material**: Polyimide
- **Cone material**: Kevlar loaded paper
- **Surround material**: Treated paper
- **Suspension**: Single
- **Xmax**: n/a
- **Gap depth**: n/a
- **Voice coil winding width**: n/a

### SMALL SIGNAL PARAMETERS
- **Sd**: n/a
- **Fs**: 461Hz
- **Mms**: n/a
- **Qms**: n/a
- **Qes**: n/a
- **Qts**: n/a
- **Re**: 5.38Ω
- **Vas**: n/a
- **Bl**: n/a
- **Cms**: n/a
- **Rms**: n/a
- **Le (at 1kHz)**: 0.7mH

### MOUNTING INFORMATION
- **Overall diameter**: 120mm x 108.5mm/4.7in x 54.3
- **Overall depth**: 60mm/2.4in
- **Cut-out diameter**: 95mm/3.7in
- **Mounting slot dimensions**: φ 4.3mm/0.17in
- **Number of mounting slots**: 4
- **Mounting PCD range**: 109mm/4.3in
- **Unit weight**: 1.0kg/2.2lb

### PACKED DIMENSIONS & WEIGHT
- **Single pack size (WxDxH)**: 120mm x 120mm x 80mm
- **Single pack weight**: 1.5kg/3.3lb
- **Multi pack qty**: 12
- **Multi pack size (WxDxH)**: 425mm x 280mm x 165mm
- **Multi pack weight**: 16.7in x 11in x 6.5in
- **20kg/44lb

### FREQUENCY RESPONSE AND IMPEDANCE CURVES

Topmost curve: Frequency response on axis  |  Secondary curve: Frequency response at 45° off axis

30Wrms (AES standard) power rating
90dB sensitivity
1-inch round copper voice coil

- Closed back midrange unit

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Continuous Power Rating is defined as 3dB greater than the AES rating.
4. Measured on axis at 1W, 1m in anechoic environment.
K12H-200TC
12-inch pressed steel chassis, ferrite magnet extended HF response driver

200W rms
(AES standard) power rating

98 dB sensitivity

2-inch round copper voice coil

- Secondary cone extends HF response to 10 kHz
- Strengthened voice coil assembly for improved midband clarity

**GENERAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Specification Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal diameter</td>
<td>305 mm/12 in</td>
</tr>
<tr>
<td>Power rating [1]</td>
<td>200W rms</td>
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<tr>
<td>EIA power rating [2]</td>
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<tr>
<td>Nominal impedance</td>
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<tr>
<td>Frequency range</td>
<td>50-10,000 Hz</td>
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<td>Chassis type</td>
<td>Pressed Steel</td>
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<tr>
<td>Magnet type</td>
<td>Ferrite</td>
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<tr>
<td>Magnet weight</td>
<td>1.4 kg/30oz</td>
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<tr>
<td>Voice coil diameter</td>
<td>2.1 inch</td>
</tr>
<tr>
<td>Voice coil material</td>
<td>Round copper</td>
</tr>
<tr>
<td>Cone material</td>
<td>Polyimide</td>
</tr>
<tr>
<td>Surround material</td>
<td>Kevlar loaded paper</td>
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<tr>
<td>Suspension</td>
<td>Single</td>
</tr>
<tr>
<td>Xmax [3]</td>
<td>2 mm/0.08 in</td>
</tr>
<tr>
<td>Gap depth</td>
<td>8 mm/0.31 in</td>
</tr>
<tr>
<td>Voice coil winding width</td>
<td>12 mm/0.47 in</td>
</tr>
</tbody>
</table>

**SMALL SIGNAL PARAMETERS**

- Sd [4] = 530.93 cm²/82.29 m²
- Fs = 62.3 Hz
- Mms = 40.57 g/1.3 oz
- Qms = 2.804
- Qes = 0.432
- Qts = 0.374
- Re = 5.81 Ω
- Vas = 6.81/2.26 in²
- Bi = 14.63 m
- Cms = 0.16 mm²/N
- Rms = 5.67 kg/s
- Le (at 1 kHz) = 0.63 mH

**MOUNTING INFORMATION**

- Overall diameter = 305 mm/12.1 in
- Overall depth = 130.3 mm/5.14 in
- Cut-out diameter = 283 mm/11.1 in
- Mounting slot dimensions = 6.9 mm/0.31 in
- Number of mounting slots = 4
- Mounting PCD range = 297 mm/11.6 in
- Unit weight = 8.9 kg/19.6 lb

**PACKED DIMENSIONS & WEIGHT**

- Single pack size (WxDxH) = 333 mm x 332 mm x 145 mm
- Single pack weight = 13.1 kg/28.8 lb

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard.
2. Power calculated on minimum impedance. Loudspeaker tested in free air.
3. Xmax derived from: (voice coil winding width-gap depth)/2.
4. Measured on axis at 1W, 1 m in an anechoic environment.
5. Tested as per the EIA-426-A standard.
6. Continuous Power Rating is defined as 3dB greater than the AES rating.
**K12H-100TC**

12-inch pressed steel chassis, ferrite magnet extended HF response driver

### GENERAL SPECIFICATIONS
- **Nominal diameter**: 305mm/12in
- **Power rating**: 100Wrms
- **Continuous power rating**: 200W
- **EIA power rating**: 150W
- **Nominal impedance**: 8Ω
- **Sensitivity**: 97dB
- **Frequency range**: 50-10,000Hz
- **Chassis type**: Pressed Steel
- **Magnet type**: Ferrite
- **Magnet weight**: 1.4kg/3.1lb
- **Voice coil diameter**: 45mm/1.75in
- **Voice coil material**: Round copper
- **Former material**: Polyimide
- **Cone material**: Kevlar loaded paper
- **Surround material**: Cloth sealed
- **Suspension**: Single
- **Xmax**: 1mm/0.04in
- **Gap depth**: 8mm/0.31in
- **Voice coil winding width**: 10mm/0.39in

### SMALL SIGNAL PARAMETERS
- **Sd**: 530.93cm²/21.29in²
- **Fs**: 55.6Hz
- **Mms**: 45.39g/1.0oz
- **Qms**: 2.855
- **Qes**: 0.473
- **Qts**: 0.399
- **Re**: 5.48Ω
- **Vas**: 72.04l/2.54ft³
- **Bl**: 13.55Tm
- **Cms**: 0.18mm/N
- **Rms**: 6.22kg/s
- **Le (at 1kHz)**: 0.67mH

### MOUNTING INFORMATION
- **Overall diameter**: 309mm/12.2in
- **Overall depth**: 129.7mm/5.11in
- **Cut-out diameter**: 283mm/11.14in
- **Mounting slot dimensions**: ø7.9mm/0.31in
- **Number of mounting slots**: 4
- **Mounting PCD range**: 297mm/11.69in
- **Unit weight**: 3.8kg/8.4lb

### PACKED DIMENSIONS & WEIGHT
- **Single pack size (WxDxH)**: 333mm x 332mm x 145mm
- **Single pack weight**: 4.8kg/10.5lb

### POWER RATING AND IMPEDANCE CURVES

- **100Wrms**
  - (AES standard)
  - **Power rating**
- **97dB**
  - **Sensitivity**
- **1.75-inch**
  - Round copper voice coil

- **Secondary cone extends HF response to 10kHz**
- **Strengthened voice coil assembly for improved midband clarity**

---

1. Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker tested in free air.
2. Continuous Power Rating is defined as 3dB greater than the AES rating.
3. Tested as per the EIA-426-A standard.
4. Measured on axis at 1W. 1m in an anechoic environment.
5. Xmax derived from (voice coil winding width-gap depth)/2.
6. Small signal parameters measured after unit subjected to pre-conditioning signal.
AXI    HF NEO    HF FERRITE    HORNS    COAXIAL    COMPACT ARRAY DRIVER    LF CAST CHASSIS NEO    LF CAST CHASSIS FERRITE    LF PRESSED CHASSIS NEO    LF PRESSED CHASSIS FERRITE
<table>
<thead>
<tr>
<th>MODEL</th>
<th>APPLICATION</th>
<th>MAGNET</th>
<th>RMS POWER RATING</th>
<th>SENS.</th>
<th>FREQUENCY RANGE</th>
<th>VOICE COIL DIAMETER (mm)</th>
<th>XMAX (in)</th>
<th>WEIGHT (kg)</th>
<th>PAGE</th>
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</thead>
<tbody>
<tr>
<td>AN2075</td>
<td>2&quot; ABS chassis full range driver</td>
<td>Neo</td>
<td>20W</td>
<td>80dB</td>
<td>160-19,000Hz</td>
<td>20.75</td>
<td>1.5</td>
<td>0.06</td>
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<td>2.75&quot; ABS chassis full range driver</td>
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<td>20W</td>
<td>84dB</td>
<td>160-20,000Hz</td>
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<td>Fe</td>
<td>35W</td>
<td>87dB</td>
<td>120-18,000Hz</td>
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<td>0.06</td>
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<td>35W</td>
<td>87dB</td>
<td>98-18,500Hz</td>
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<td>1.25</td>
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<td>0.16</td>
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<td>30W</td>
<td>90dB</td>
<td>400-10,000Hz</td>
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<td>35W</td>
<td>88dB</td>
<td>100-18,000Hz</td>
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<td>30W</td>
<td>91dB</td>
<td>130-6,000Hz</td>
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<td>0.04</td>
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<td>30W</td>
<td>93dB</td>
<td>400-6,000Hz</td>
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<td>n/a</td>
<td>1.1</td>
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<td>Neo</td>
<td>100W</td>
<td>98dB</td>
<td>200-8,000Hz</td>
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<td>95dB</td>
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<td>150W</td>
<td>95dB</td>
<td>150-7,000Hz</td>
<td>44.175</td>
<td>4.5</td>
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<td>0.95</td>
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<td>Neo</td>
<td>150W</td>
<td>93.5dB</td>
<td>70-10,000Hz</td>
<td>44.175</td>
<td>3</td>
<td>0.12</td>
<td>1.2</td>
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<td>6.5&quot; aluminium chassis midrange driver</td>
<td>Neo</td>
<td>200W</td>
<td>99dB</td>
<td>300-7,000Hz</td>
<td>44.175</td>
<td>1.2</td>
<td>0.05</td>
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<td>100W</td>
<td>99dB</td>
<td>600-5,000Hz</td>
<td>44.175</td>
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<td>n/a</td>
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<td>100W</td>
<td>94dB</td>
<td>70-6,000Hz</td>
<td>44.175</td>
<td>3.5</td>
<td>0.14</td>
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<td>Fe</td>
<td>150W</td>
<td>94dB</td>
<td>60-4,000Hz</td>
<td>50</td>
<td>2</td>
<td>0.08</td>
<td>1.3</td>
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<td>FTR06-2011D</td>
<td>8&quot; aluminium chassis mid/bass driver</td>
<td>Fe</td>
<td>200W</td>
<td>93dB</td>
<td>70-6,000Hz</td>
<td>50.2</td>
<td>3.5</td>
<td>0.137</td>
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<td>NTR08-2011D</td>
<td>8&quot; aluminium chassis mid/bass driver</td>
<td>Neo</td>
<td>200W</td>
<td>92dB</td>
<td>70-6,000Hz</td>
<td>50.2</td>
<td>4</td>
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<td>8&quot; aluminium chassis mid/bass driver</td>
<td>Neo</td>
<td>200W</td>
<td>94.5dB</td>
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<td>CF0820BMB</td>
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<td>250W</td>
<td>93dB</td>
<td>50-6,000Hz</td>
<td>50.2</td>
<td>5.25</td>
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## LF LOUDSPEAKERS

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<th>SENS.</th>
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<th>XMAX (in)</th>
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## HF COMPRESSION DRIVERS

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<th>MAGNET</th>
<th>FREQUENCY RANGE</th>
<th>MIN. CROSSOVER</th>
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## COAXIAL DRIVERS

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<th>MODEL</th>
<th>APPLICATION</th>
<th>RMS POWER RATING</th>
<th>SENSITIVITY</th>
<th>FREQUENCY RANGE</th>
<th>MIN. CROSSOVER</th>
<th>VOICE COIL (IN)</th>
<th>HF DISPERSION</th>
<th>WEIGHT (LB)</th>
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Suggested crossover designs available online at celestion.com/speakerworld