

# CELESTION

PROFESSIONAL LOUDSPEAKERS  
& COMPRESSION DRIVERS



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# ABOUT CELESTION

## RESEARCH AND DEVELOPMENT



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.

## DESIGN AND ENGINEERING

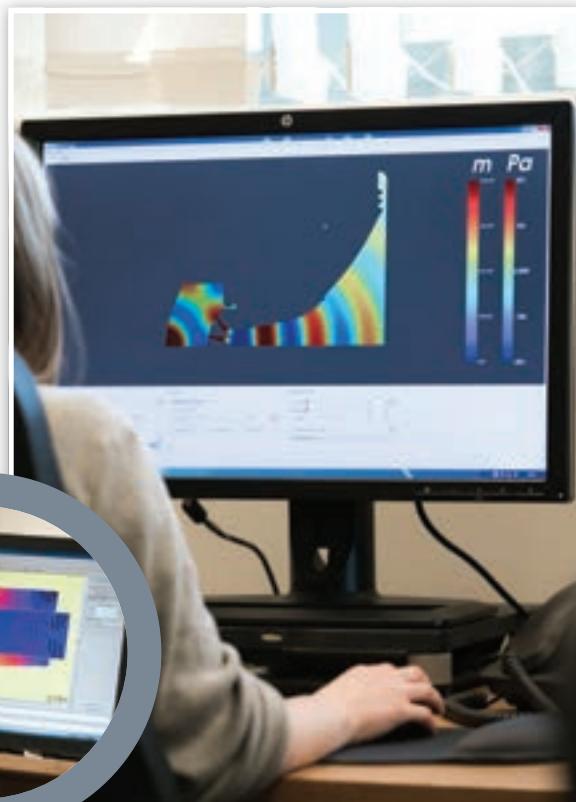


Celestion has access to the latest design software employing the principles and methods of Finite Element Analysis (FEA) for efficient loudspeaker development, as well as design tools such as 3-D CAD and printing for technical visualisation and prototyping.

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 Klipfel® 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.



## MANUFACTURING AND LOGISTICS

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<sup>2</sup> 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.

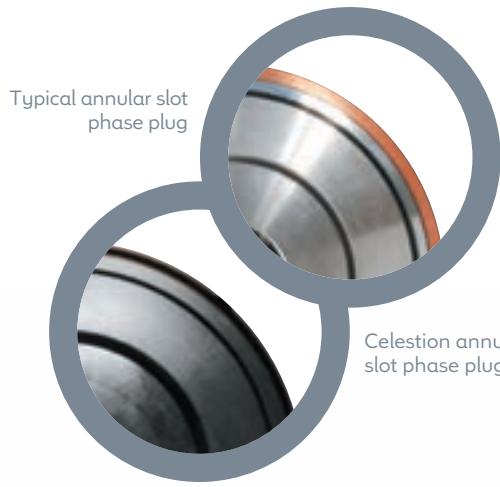


# KEY TECHNOLOGIES



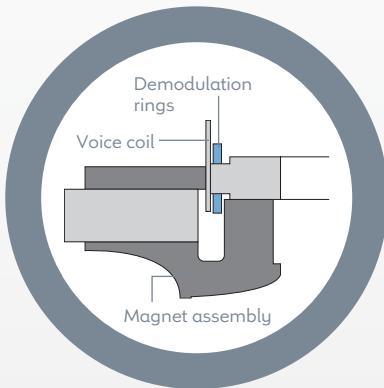
## CIRCUMFERENTIALLY AXI PERIODIC DIAPHRAGM: AXI SECTION

Central to the ground-breaking 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 ground-breaking 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.



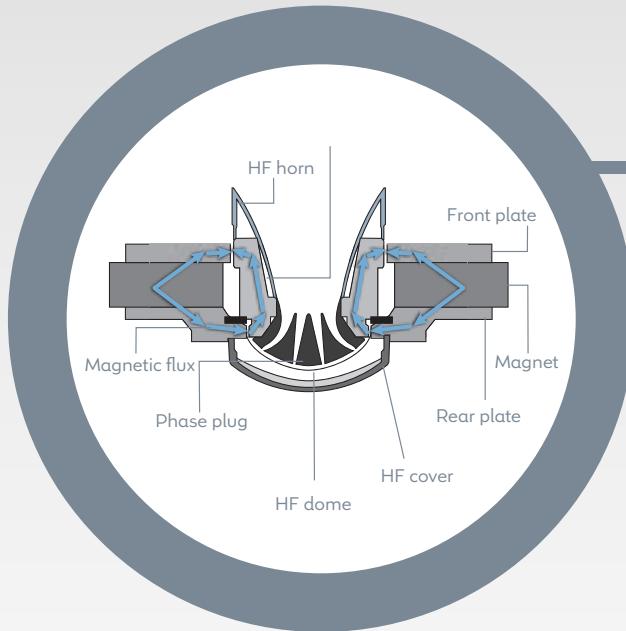
## DEEP DRAWN DIAPHRAGM

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.



## SOUND CASTLES

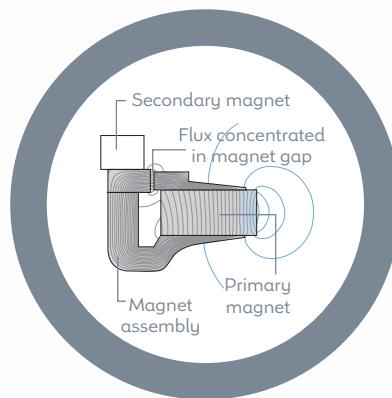
Celestion’s highly successful Sound Castle™ clamping system features on many of our most successful compression drivers. It was developed to ensure an even clamping pressure on the diaphragm surround, reducing distortion while simplifying maintenance in the field. They also allow the full internal volume 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.



## COMMON MAGNET MOTOR

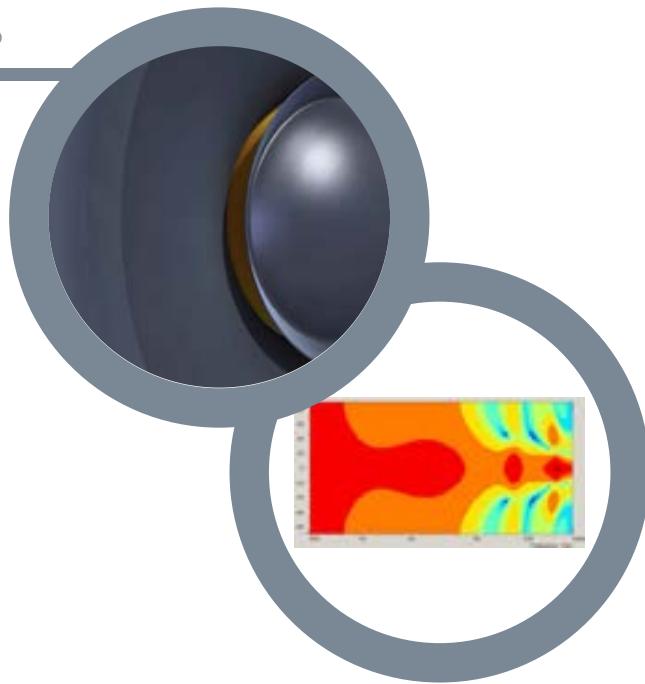
The FTX coaxial drivers feature fully combined Low and High Frequency components powered by a Common Magnet Motor Assembly, where the same ferrite magnet is used to drive both elements. This precision-designed magnet assembly has been optimised using finite element analysis techniques so that it distributes 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.



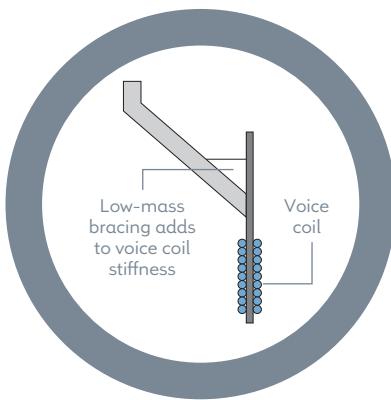
## DUAL MAGNET MOTOR

A secondary magnet is employed within the assembly to increase the overall motor efficiency. This results in a measurable increase in  $B_l$ , enabling higher sensitivity models to be produced where the application demands, without needing to significantly increase overall magnet assembly size and weight.



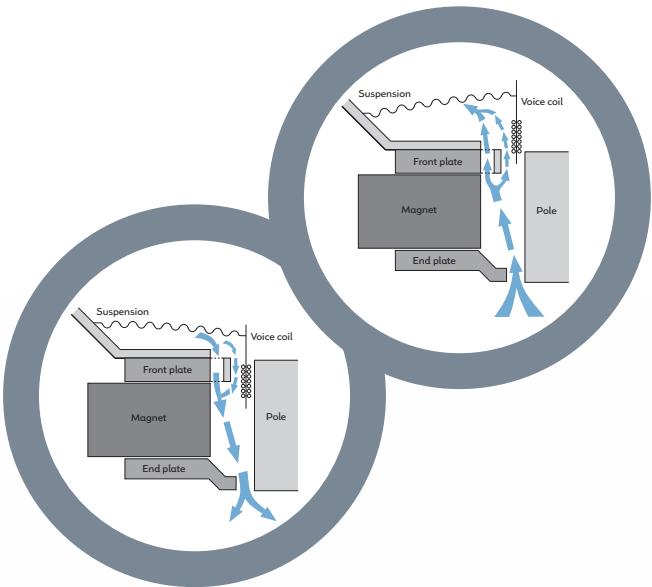
### INTEGRATED HF WAVEGUIDE

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.



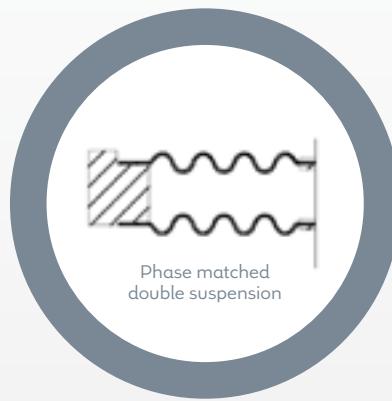
### LOW MASS COIL REINFORCEMENT

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.



### **INVERTED DUST CAP**

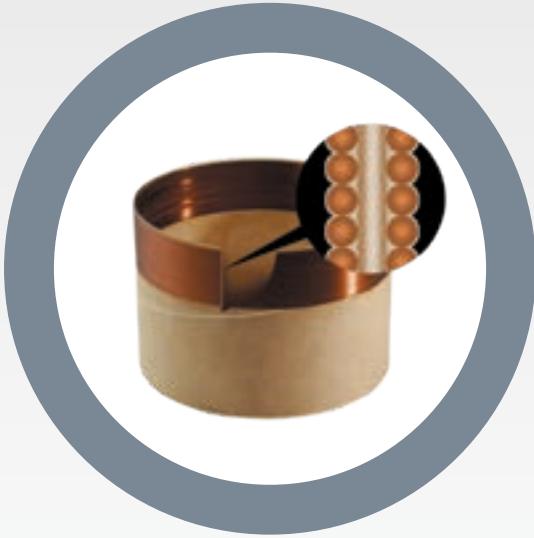
For horn-loaded midrange applications, the inverted dust cap enables OEM designers to position a phase plug much closer into the cone, minimising distortion by significantly reducing the possibility of destructive interference.



### **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.



Voice coil wound ‘Inside/Outside’ for more effective cooling

### **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  $B_l$  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  $B_l(x)$  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  $B_l$  from a compact magnet assembly.

# AXI

Wide bandwidth,  
AxiPeriodic driver





PATENTED

**Axi2050**

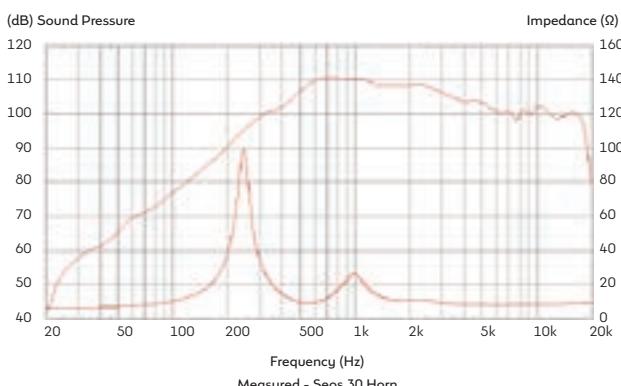
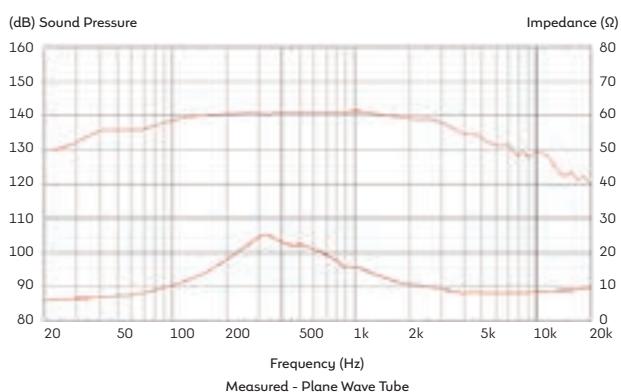
**2-inch exit, neodymium magnet, wide bandwidth  
AxiPeriodic driver**

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



**108dB**  
sensitivity

**300-20kHz**  
frequency range

**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 Handling is defined as 3dB greater than the AES rating.

3. Measured on axis at 1W, 1m, using compatible horn, in 2n anechoic environment.

- No midband crossover required
- Low mass Ti diaphragm with unique circumferentially AxiPeriodic geometry
- Sculpted diaphragm profile prevents break-up in critical listening band
- Vibration modes decoupled from acoustic modes, removing unwanted resonance peaks
- Large effective surround area extends low frequency performance

**GENERAL SPECIFICATIONS**

Power rating <sup>1</sup>	150Wrms
Continuous power rating <sup>2</sup>	300W
Nominal impedance	8Ω
Sensitivity <sup>3</sup>	108dB
Frequency range	300-20,000Hz
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 11.8in x 11.8in x 6.5in
Single pack weight.....	8.2kg/18.1lb



# HF NEO

**Neodymium magnet  
compression drivers**

Magnet Type	Voice Coil Diameter	Throat Exit	Mounting	Diaphragm Material	Power Rating*	Impedance	Sensitivity	Frequency Range	Min Crossover Frequency	Unit Weight	
<b>CDX20-3000</b>	Neodymium	75mm/3in	2in/50mm	Flange	Titanium	75Wrms	8/16Ω	107dB	500-20,000Hz	800Hz	2.kg/4.4lb
<b>CDX14-3050</b>	Neodymium	75mm/3in	1.4in/35mm	Flange	Titanium	75Wrms	8/16Ω	106.5dB	500-20,000Hz	1,000Hz	1.7kg/3.7lb
<b>CDX14-3040</b>	Neodymium	75mm/3in	1.4in/35mm	Flange	Titanium	75Wrms	8/16Ω	106.5dB	500-20,000Hz	1,000Hz	1.4kg/3.1lb
<b>CDX14-2420</b>	Neodymium	60mm/2.4in	1.4in/35mm	Flange	Titanium	70Wrms	8/16Ω	106.5dB	800-20,000Hz	1,200Hz	1.5kg/3.3lb
<b>CDX1-1720</b>	Neodymium	44mm/1.75in	1in/25mm	Flange	Titanium	50Wrms	8/16Ω	107dB	800-20,000Hz	1,500Hz	0.65kg/1.4lb
<b>CDX1-1732</b>	Neodymium	44mm/1.75in	1in/25mm	Flange	Polyimide	60Wrms	8Ω	110dB	1,000-20,000Hz	2,000Hz	0.65kg/1.4lb
<b>CDX1-1730</b>	Neodymium	44mm/1.75in	1in/25mm	Flange	PETP film	40Wrms	8/16Ω	110dB	1,200-20,000Hz	2,200Hz	0.65kg/1.4lb
<b>CDX1-1731</b>	Neodymium	44mm/1.75in	1in/25mm	Screw	PETP film	40Wrms	8/16Ω	110dB	1,200-20,000Hz	2,200Hz	0.65kg/1.4lb
<b>CDX1-1430</b>	Neodymium	35mm/1.4in	1in/25mm	Flange	Aluminium	50Wrms	8Ω	108dB	2,000-20,000Hz	2,500Hz	0.47kg/1.0lb
<b>CDX1-1425</b>	Neodymium	35mm/1.4in	1in/25mm	Flange	Aluminium	25Wrms	8/16Ω	108dB	2,000-20,000Hz	2,500Hz	0.39kg/0.9lb
<b>CDX1-1415</b>	Neodymium	35mm/1.4in	1in/25mm	Flange	Aluminium	20Wrms	8Ω	104dB	2,000-20,000Hz	2,500Hz	0.25kg/0.6lb
<b>CDX07-1075</b>	Neodymium	25mm/1in	19mm/0.8in	Flange	Polyimide	15Wrms	8Ω	109dB	1,500-18,000Hz	2,500Hz	0.16kg/0.35lb

\*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 <sup>1</sup> .....	75Wrms
Continuous power rating <sup>2</sup> .....	150W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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

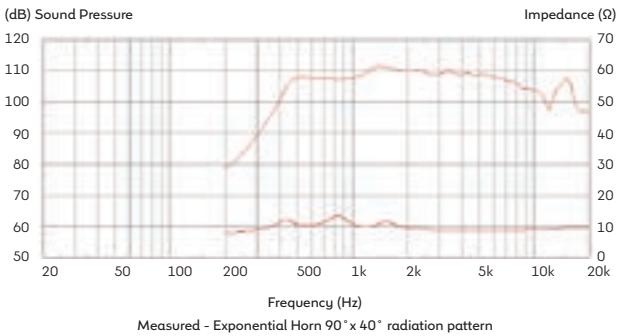
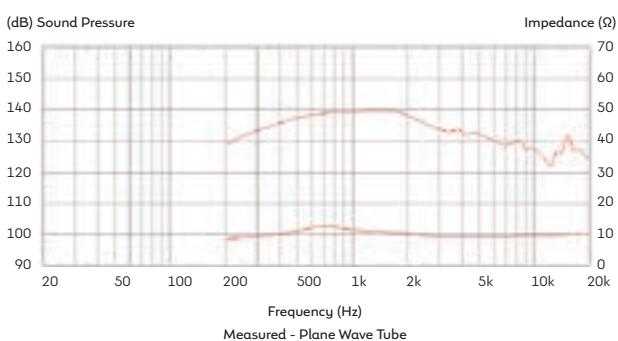
Single pack size (WxDxH).....	140mm x 135mm x 112mm 5.5in x 5.3in x 4.4in
Single pack weight.....	2.4kg/5.3lb
Multi pack qty .....	6
Multi pack size (WxDxH).....	500mm x 365mm x 145mm 19.7in x 14.4in x 5.7in

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 2n anechoic environment.

Also available in 16Ω, data available on request

**CDX14-3050**

**1.4-inch exit neodymium magnet compression driver**



**75Wrms**

(AES standard)  
power rating



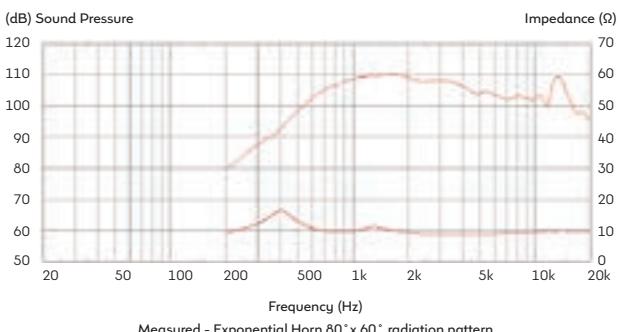
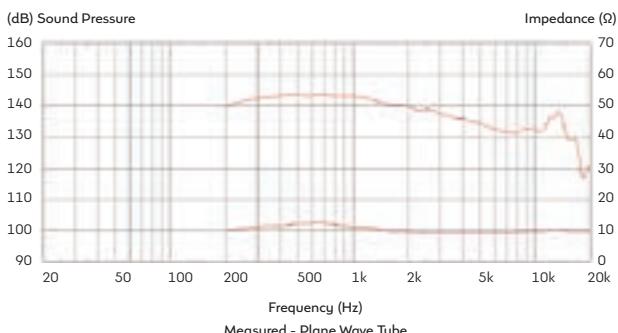
**106.5dB**

sensitivity

**3-inch**

edgewound copper  
clad aluminium  
voice coil

- 1,000Hz recommended min. crossover freq (12dB/oct)
- Maximum modal suppression phase plug
- Deep-drawn titanium diaphragm with polyimide surround

**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

**GENERAL SPECIFICATIONS**

Power rating <sup>1</sup> .....	75Wrms
Continuous power rating <sup>2</sup> .....	150W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	106.5dB
Frequency range .....	500-20,000Hz
Recommended min. crossover (12dB/oct) .....	1000Hz
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 .....	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 6.7in x 5.5in x 3in
Single pack weight .....	2kg/4.4lb
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**

T5526 .....	Diaphragm repair kit (8Ω)
T5538 .....	Diaphragm repair kit (16Ω)

NEW

**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 rating <sup>1</sup>	75Wrms
Continuous power rating <sup>2</sup>	150W
Nominal impedance	8Ω
Sensitivity <sup>3</sup>	106.5dB
Frequency range	500-20,000Hz
Recommended min. crossover (1.2dB/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**

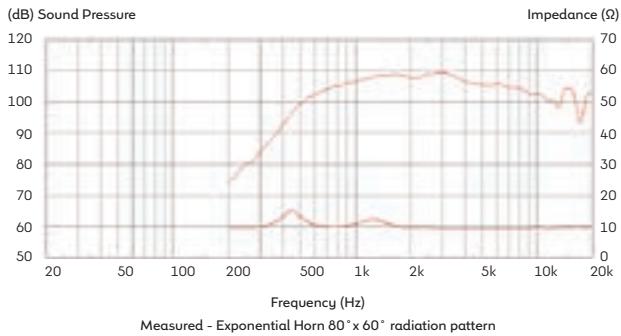
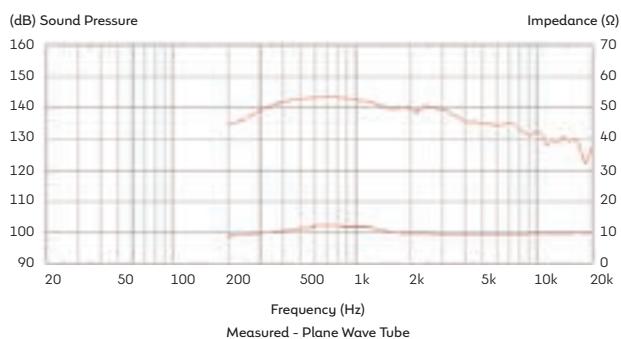
Width	135mm/5.3in
Depth	68mm/2.7in
Unit Weight	1.4kg/3.1lb
Fitting	Flange (4 x M6 holes on 102mm/4in PCD)
Throat exit	35mm/1.4in

**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)
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**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

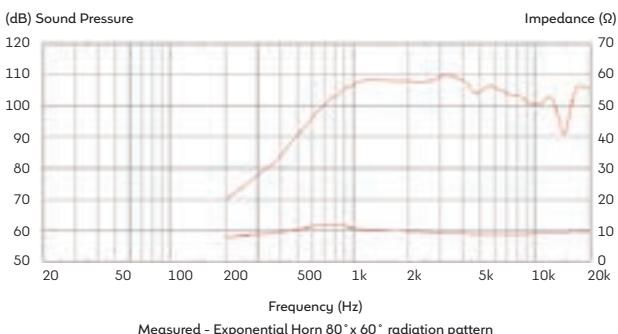
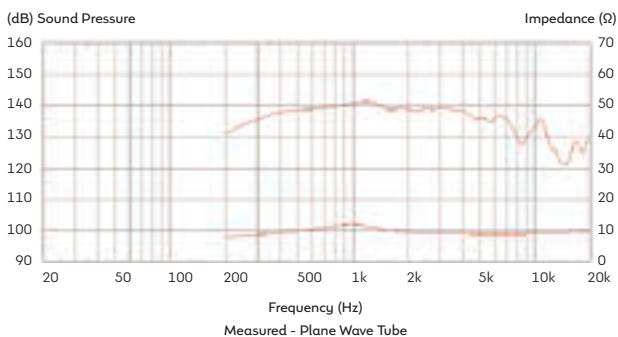


**106.5dB**  
sensitivity

**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

### 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

### GENERAL SPECIFICATIONS

Power rating <sup>1</sup> .....	70Wrms
Continuous power rating <sup>2</sup> .....	140W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	106.5dB
Frequency range .....	800-20,000Hz
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)

# 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 rating <sup>1</sup>	50Wrms
Continuous power rating <sup>2</sup>	100W
Nominal impedance	8Ω
Sensitivity <sup>3</sup>	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

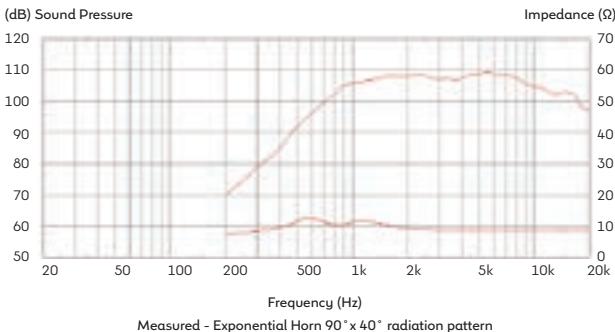
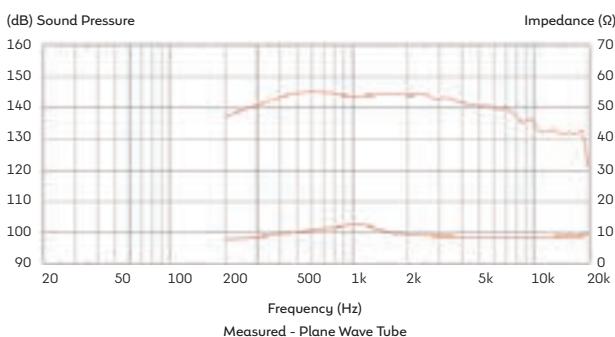
Single pack size (WxDxH)	90mm x 90mm x 60mm 3.5in x 3.5in x 2.4in
Single pack weight	0.75kg/1.7lb
Multi pack qty	16
Multi pack size (WxDxH)	500mm x 485mm x 110mm 19.7in x 19.1in x 4.3in
Multi pack weight	11.2kg/24.9lb

#### HORNS & REPAIR KITS

T5555	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.

Also available in 16Ω, data available on request



NEW

**CDX1-1732**

**1-inch exit neodymium  
magnet compression  
driver**

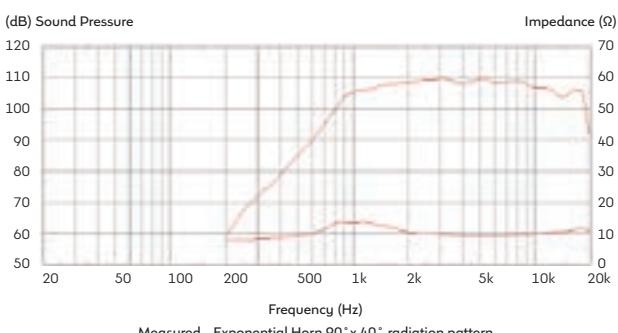
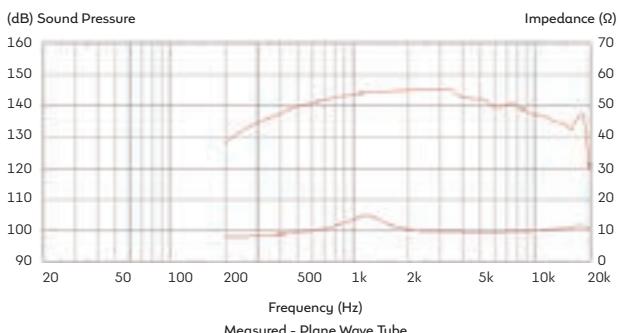
**60Wrms**  
(AES standard)  
power rating



**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

**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 <sup>1</sup> .....	60Wrms
Continuous power rating <sup>2</sup> .....	100W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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 19.7in x 19.1in x 4.3in
Multi pack weight.....	11.2kg/24.9lb

**HORNS & REPAIR KITS**

T5572 .....	Diaphragm repair kit (8Ω)
T5359 .....	H1-9040P Horn
T5134 .....	H1-7050 'No Bell' Horn

# CDX1-1730

# CDX1-1731

**1-inch exit neodymium magnet compression driver**



**40Wrms**

(AES standard)  
power rating

**110dB**

sensitivity

**1.75-inch**

edgewound copper  
clad aluminium  
voice coil

- 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

Power rating <sup>1</sup>	40Wrms
Continuous power rating <sup>2</sup>	80W
Nominal impedance	8Ω
Sensitivity <sup>3</sup>	110dB
Frequency range	1,200-20,000Hz
Recommended min. crossover (12dB/oct)	2,200Hz
Magnet type	Neodymium
Voice coil diameter	44mm/1.75in
Voice coil material	Edgewound copper clad aluminium
Diaphragm material	PETP film
Surround material	PETP film

#### MOUNTING INFORMATION

Width	88.5mm/3.48in (max)
Depth	55mm/2.2in
Unit Weight	0.65kg/1.4lb
Fitting (1730)	Flange (4 x M6 holes on 76mm/3in PCD)
Fitting (1731)	Screw (35mm/1.38in diameter)
Throat exit	25mm/1in

#### PACKED DIMENSIONS & WEIGHT

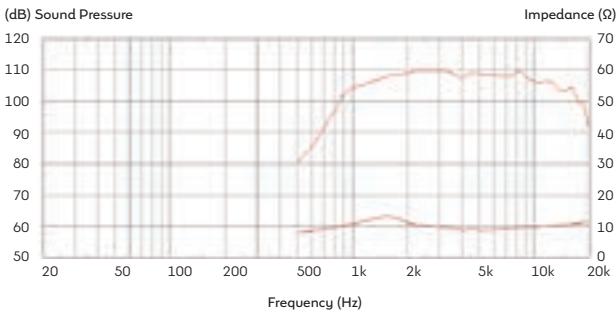
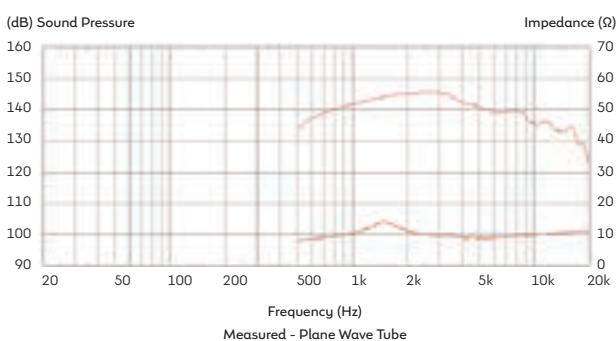
Single pack size (WxDxH)	90mm x 90mm x 60mm 3.5in x 3.5in x 2.4in
Single pack weight	0.75kg/1.7lb
Multi pack qty	16
Multi pack size (WxDxH)	500mm x 485mm x 110mm 19.7in x 19.1in x 4.3in
Multi pack weight	11.2kg/24.9lb

#### HORNS & REPAIR KITS

T5510	Diaphragm repair kit (8Ω)
T5523	Diaphragm repair kit (16Ω)
T5359	H1-9040P Horn
T5134	H1-7050 'No Bell' Horn
T5951	H1SC-9050 Horn (screw)
T5952	H1SC-7050 Horn (screw)



#### 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



## CDX1-1430

1-inch exit neodymium  
magnet compression  
driver

**50Wrms**  
(AES standard)  
power rating

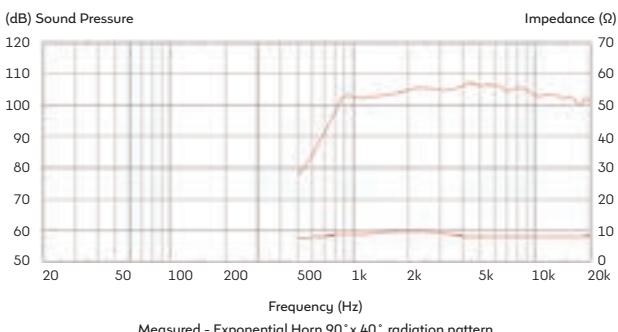
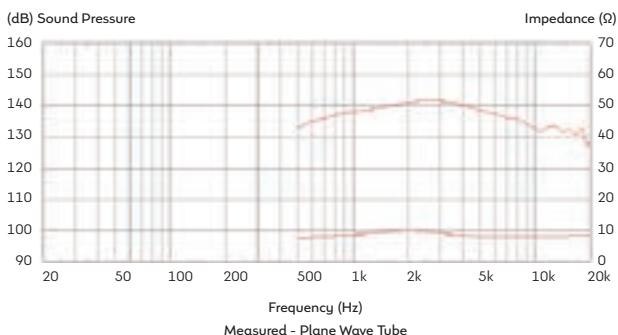


**108dB**  
sensitivity

**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

### 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 <sup>1</sup>	50Wrms
Continuous power rating <sup>2</sup>	100W
Nominal impedance	8Ω
Sensitivity <sup>3</sup>	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	0.47kg/1lb
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
	3.5in x 3.5in x 2.4in
Single pack weight	0.6kg/1.3lb
Multi pack qty	24
Multi pack size (WxDxH)	345mm x 370mm x 245mm
	13.6in x 14.6in x 9.6in
Multi pack weight	12.5kg/28lb

### HORNS & REPAIR KITS

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

# 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 rating <sup>1</sup> .....	25Wrms
Continuous power rating <sup>2</sup> .....	50W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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

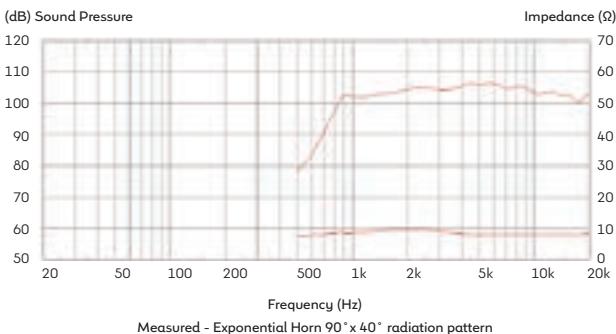
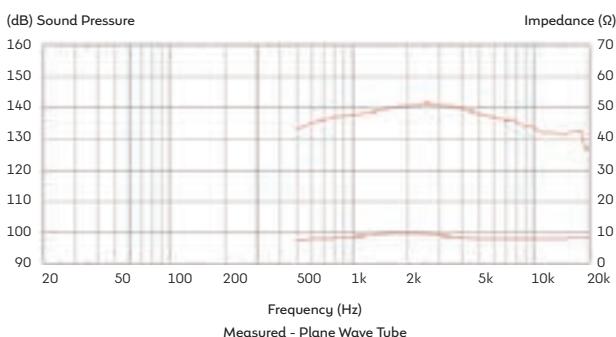
Single pack size (WxDxH).....	90mm x 90mm x 60mm .....	3.5in x 3.5in x 2.4in
Single pack weight.....	.....	.kg/lb
Multi pack qty .....	24	
Multi pack size (WxDxH).....	250mm x 350mm x 290mm .....	9.8in x 13.8in x 11.4in
Multi pack weight .....	.....	10kg/22lb

#### 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

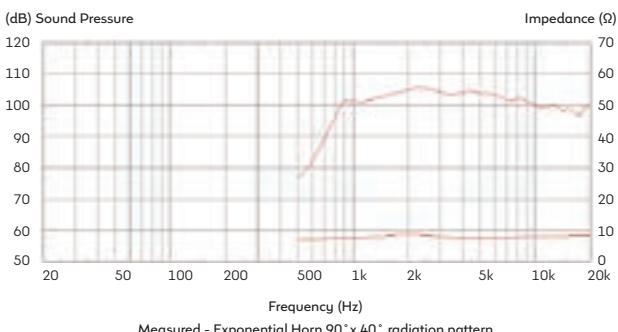
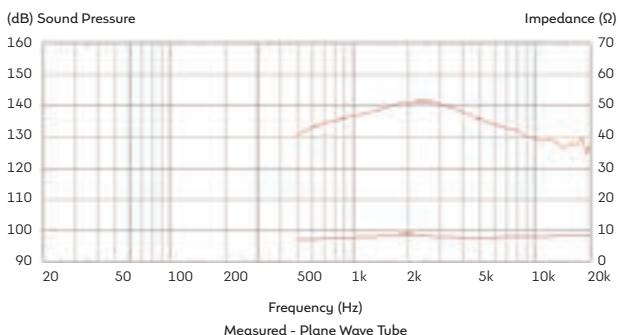


**104dB**  
sensitivity

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

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

### FREQUENCY RESPONSE AND IMPEDANCE CURVES



### GENERAL SPECIFICATIONS

Power rating <sup>1</sup>	20Wrms
Continuous power rating <sup>2</sup>	40W
Nominal impedance	8Ω
Sensitivity <sup>3</sup>	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
	3.5in x 3.5in x 2.4in
Single pack weight	0.5kg/1.1lb
Multi pack qty	24
Multi pack size (WxDxH)	250mm x 350mm x 290mm
	9.8in x 13.8in x 11.4in
Multi pack weight	7kg/14.5lb

### HORNS & REPAIR KITS

T5503	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.

# CDX07-1075

**0.75-inch exit  
neodymium magnet  
compression driver**



**15Wrms**  
(AES standard)  
power rating

**109dB**  
sensitivity

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

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

## GENERAL SPECIFICATIONS

Power rating <sup>1</sup> .....	15Wrms
Continuous power rating <sup>2</sup> .....	30W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	109dB
Frequency range .....	1,500-18,000Hz
Recommended min. crossover (12dB/oct) .....	2,500Hz
Magnet type .....	Neodymium
Voice coil diameter .....	25mm/1in
Voice coil material .....	Copper clad aluminium
Diaphragm material .....	Polyimide
Surround material .....	Polyimide

## MOUNTING INFORMATION

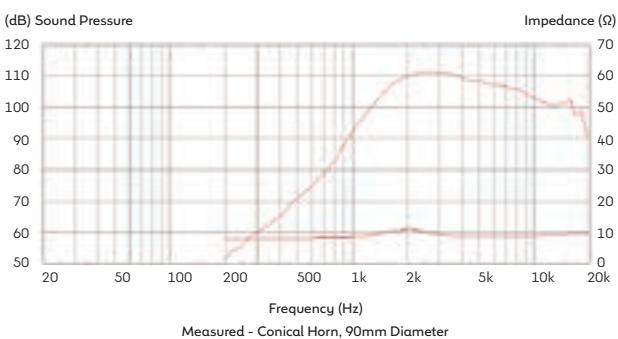
Width .....	60mm/2.4in
Depth .....	35mm/1.3in
Unit Weight .....	0.16kg/0.35lb
Fitting .....	Flange (2 x 4mm holes on 53mm/2.1in PCD)
Throat exit .....	19mm/0.75in

## PACKED DIMENSIONS & WEIGHT

Multi pack qty .....	24
Multi pack size (WxDxH) .....	300mm x 211mm x 160mm 11.8in x 8.3in x 6.3in
Multi pack weight .....	6kg/13.2lb



## 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.



CELESTION



# HF FERRITE

**Ferrite magnet  
compression drivers**

	Magnet Type	Voice Coil Diameter	Throat Exit	Mounting	Diaphragm Material	Power Rating*	Impedance	Sensitivity	Frequency Range	Min Crossover Frequency	Unit Weight
<b>CDX20-3075</b>	Ferrite	75mm/3in	2in/50mm	Flange	Titanium	75Wrms	8Ω	107dB	500-20,000Hz	800Hz	4.9kg/10.8lb
<b>CDX20-3020</b>	Ferrite	75mm/3in	2in/50mm	Flange	Titanium	100Wrms	8Ω	107dB	500-20,000Hz	800Hz	4.9kg/10.7lb
<b>CDX14-3060</b>	Ferrite	75mm/3in	1.4in/35mm	Flange	Titanium	75Wrms	8Ω	106.5dB	500-20,000Hz	1,000Hz	4.9kg/10.8lb
<b>CDX14-3030</b>	Ferrite	75mm/3in	1.4in/35mm	Flange	Titanium	75Wrms	8Ω	106.5dB	500-20,000Hz	1,000Hz	4.9kg/10.7lb
<b>CDX1-1740</b>	Ferrite	44mm/1.75in	1in/25mm	Flange	Titanium	50Wrms	8Ω	107dB	800-20,000Hz	1,500Hz	2.3kg/5.1lb
<b>CDX1-1747</b>	Ferrite	44mm/1.75in	1in/25mm	Flange	Polyimide	60Wrms	8Ω	110dB	1,000-20,000Hz	2,200Hz	2.3kg/5.1lb
<b>CDX1-1748</b>	Ferrite	44mm/1.75in	1in/25mm	Screw	Polyimide	60Wrms	8Ω	110dB	1,000-20,000Hz	2,200Hz	2.3kg/5.1lb
<b>CDX1-1742</b>	Ferrite	44mm/1.75in	1in/25mm	Flange	Polyimide	50Wrms	8Ω	107dB	1,200-20,000Hz	2,200Hz	1.4kg/3.1lb
<b>CDX1-1745</b>	Ferrite	44mm/1.75in	1in/25mm	Flange	PETP film	40Wrms	8/16Ω	110dB	1,200-20,000Hz	2,200Hz	2.3kg/5.1lb
<b>CDX1-1746</b>	Ferrite	44mm/1.75in	1in/25mm	Screw	PETP film	40Wrms	8/16Ω	110dB	1,200-20,000Hz	2,200Hz	2.3kg/5.1lb
<b>CDX1-1447</b>	Ferrite	35mm/1.4in	1in/25mm	Flange	Polyimide	35Wrms	8Ω	106dB	1,500-20,000Hz	2,200Hz	1kg/2.2lb
<b>CDX1-1445</b>	Ferrite	35mm/1.4in	1in/25mm	Flange	PETP film	20Wrms	8/16Ω	106dB	1,500-20,000Hz	2,200Hz	1kg/2.2lb
<b>CDX1-1446</b>	Ferrite	35mm/1.4in	1in/25mm	Screw	PETP film	20Wrms	8/16Ω	106dB	1,500-20,000Hz	2,200Hz	1kg/2.2lb
<b>CDX1-1440</b>	Ferrite	35mm/1.4in	1in/25mm	Flange	Titanium	25Wrms	8Ω	106dB	1,500-20,000Hz	2,200Hz	1kg/2.2lb
<b>CDX1-1010</b>	Ferrite	25mm/1in	1in/25mm	Screw	PETP film	15Wrms	8Ω	107dB	1,500-20,000Hz	2,200Hz	0.8kg/1.8lb
<b>CDX1-1070</b>	Ferrite	25mm/1in	1in/25mm	Flange	PETP film	12Wrms	8Ω	106dB	1,500-20,000Hz	2,200Hz	0.7kg/1.5lb

\*AES Standard

# CDX20-3075

**2-inch exit ferrite  
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 <sup>1</sup> .....	75Wrms
Continuous power rating <sup>2</sup> .....	150W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	107dB
Frequency range .....	500-20,000Hz
Recommended min. crossover (12dB/oct) .....	800Hz
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 .....	50mm/2in

## PACKED DIMENSIONS & WEIGHT

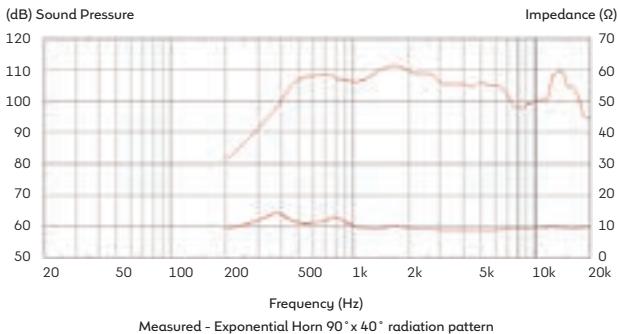
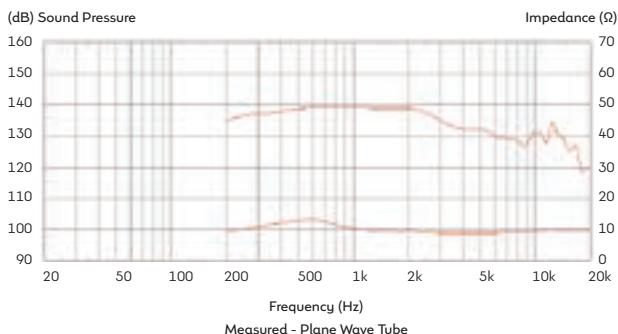
Single pack size (WxDxH).....	214mm x 196mm x 82mm 8.4in x 7.7in x 3.2in
Single pack weight.....	5.1kg/11.2lb

## REPAIR KITS

T5526.....	Diaphragm repair kit (8Ω)
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## 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.

# CDX20-3020

2-inch exit ferrite  
magnet compression  
driver

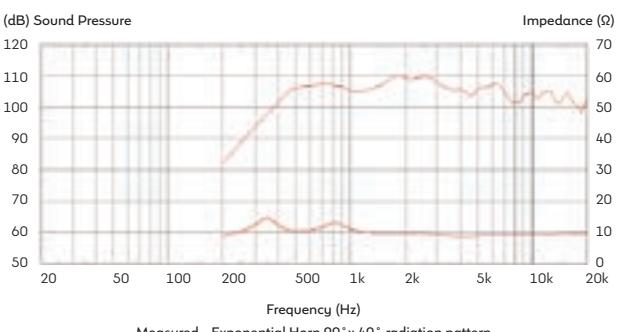
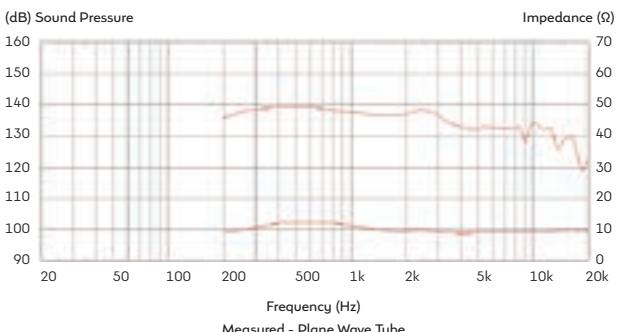
**100Wrms**  
(AES standard)  
power rating

**107dB**  
sensitivity

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

- 800Hz recommended min. crossover freq (12dB/oct)
- Single piece titanium diaphragm and surround

## 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 <sup>1</sup>	100Wrms
Continuous power rating <sup>2</sup>	200W
Nominal impedance	8Ω
Sensitivity <sup>3</sup>	107dB
Frequency range	500-20,000Hz
Recommended min. crossover (12dB/oct)	800Hz
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 (WxDxH)	214mm x 196mm x 82mm
	8.4in x 7.7in x 3.2in
Single pack weight	5.1kg/11.2lb

## REPAIR KITS

T6509	Diaphragm repair kit (8Ω)
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# 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 <sup>1</sup> .....	75Wrms
Continuous power rating <sup>2</sup> .....	150W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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

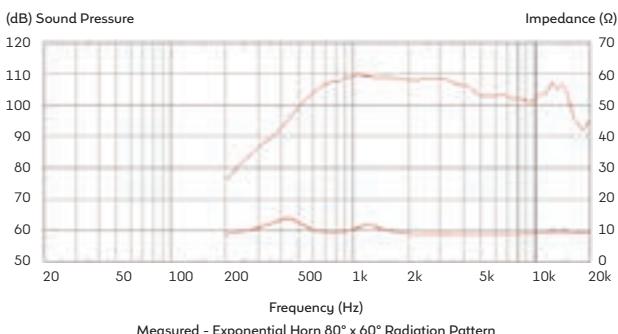
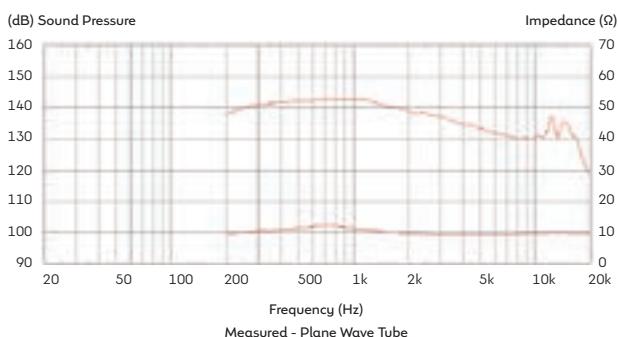
Single pack size (WxDxH).....	214mm x 196mm x 82mm 8.4in x 7.7in x 3.2in
Single pack weight.....	5.1kg/11.2lb

## REPAIR KITS

T5526 .....	Diaphragm repair kit (8Ω)
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## 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**



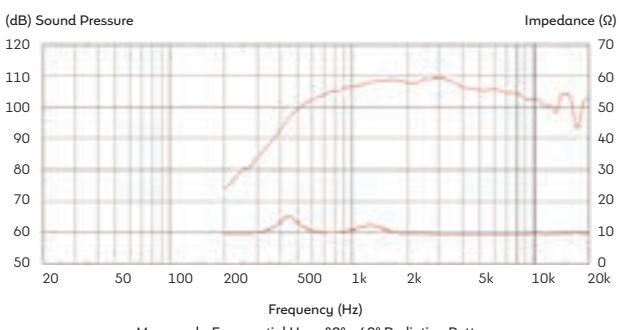
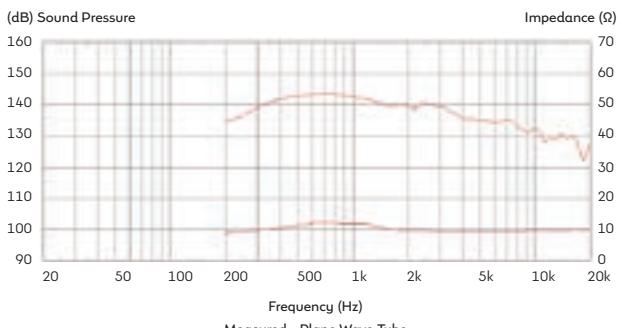
**75Wrms**  
(AES standard)  
power rating

**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



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 <sup>1</sup> .....	75Wrms
Continuous power rating <sup>2</sup> .....	150W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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 .....	Titanium

### MOUNTING INFORMATION

Width.....	180mm/7in
Depth .....	68mm/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
.....	8.4in x 7.7in x 3.2in
Single pack weight.....	5.1kg/11.2lb

### REPAIR KITS

T6509 .....	Diaphragm repair kit (8Ω)
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NEW

**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 <sup>1</sup> .....	50Wrms
Continuous power rating <sup>2</sup> .....	100W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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**

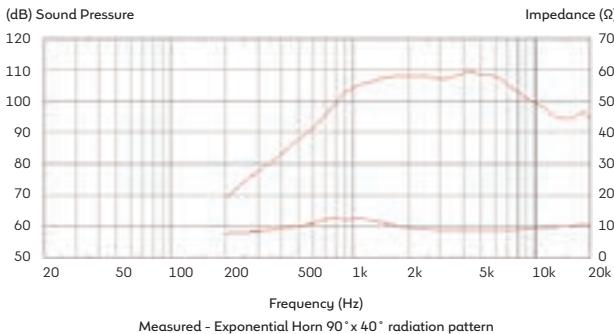
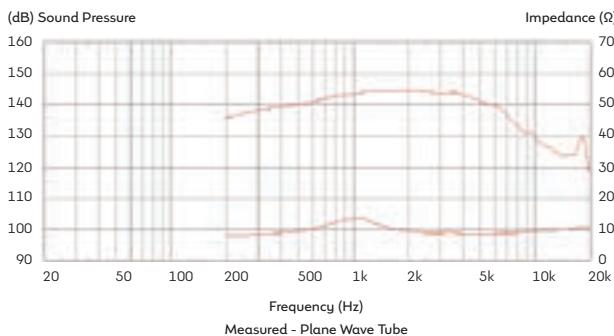
Width.....	120mm/4.7in
Depth .....	53mm/2.1in
Unit weight .....	2.3kg/5.1lb
Fitting .....	Flange (2/3 M6 holes on 76/57mm, 3.0/2.24in PCD)
Throat exit .....	25mm/1in

**PACKED DIMENSIONS & WEIGHT**

Multi pack qty .....	6
Multi pack size (WxDxH) .....	430mm x 370mm x 90mm 16.9in x 14.6in x 3.5in
Multi pack weight .....	14kg/30.8lb

**HORNS & REPAIR KITS**

T5555 .....	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.



## CDX1-1747 CDX1-1748

**1-inch exit ferrite  
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 soft clamping diaphragm assembly
- Flange (CDX1-1747) and screw (CDX1-1748) fitting versions available

### GENERAL SPECIFICATIONS

Power rating <sup>1</sup>	60Wrms
Continuous power rating <sup>2</sup>	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

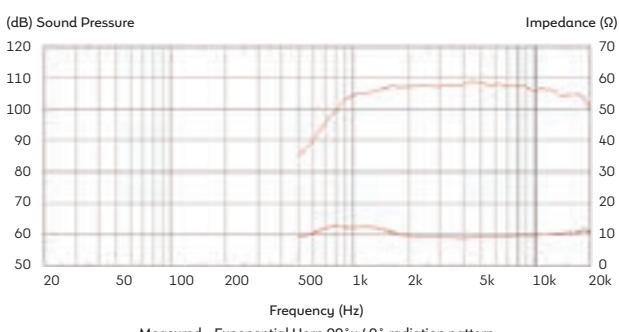
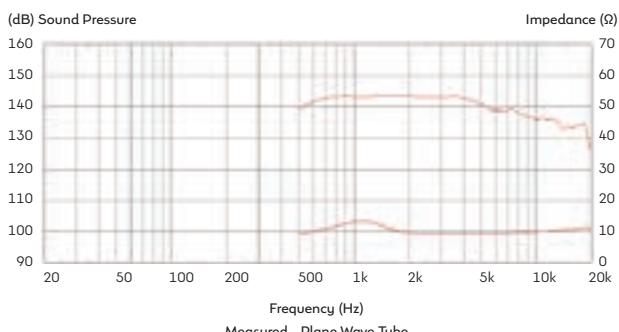
### PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH)	140mm x 170mm x 70mm
	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

T5572	Diaphragm repair kit (8Ω)
T5359	H1-9040P Horn
T5134	H1-7050 'No Bell' Horn
T5951	H1SC-9050 Horn (screw)
T5952	H1SC-8050 Horn (screw)

### 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.

NEW

**CDX1-1742****1-inch exit ferrite  
magnet compression  
driver****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

**GENERAL SPECIFICATIONS**

Power rating <sup>1</sup>	50Wrms
Continuous power rating <sup>2</sup>	100W
Nominal impedance	8Ω
Sensitivity <sup>3</sup>	107dB
Frequency	1,200-20,000Hz
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**

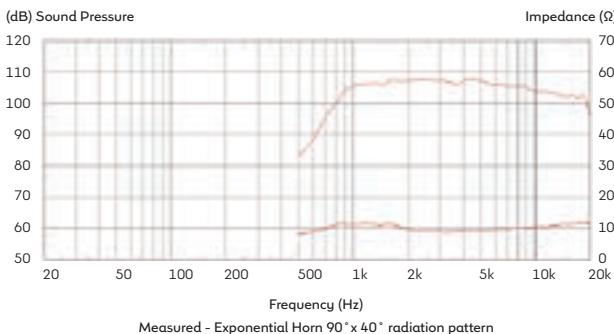
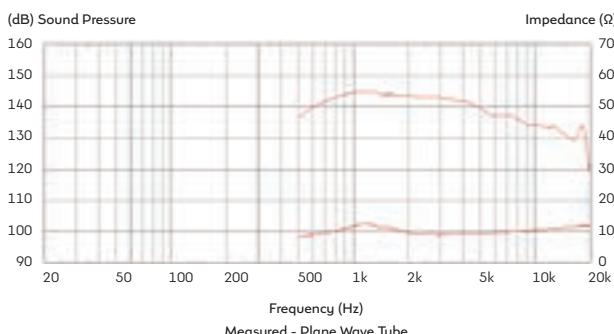
Width	100mm/4in
Depth	53.5mm/2.1in
Unit weight	1.4kg/3.1lb
Fitting	Flange (2/3 M6 holes on 76/57mm, 3.0/2.24in PCD)
Throat exit	25mm/1in

**PACKED DIMENSIONS & WEIGHT**

Single pack size (WxDxH)	140mm x 170mm x 70mm
	5.5in x 6.7in x 2.8in
Single pack weight	2kg/4.4lb
Multi pack qty	16
Multi pack size (WxDxH)	495mm x 495mm x 90mm
	19.5in x 19.5in x 3.5in
Multi pack weight	26kg/57.2lb

**HORNS & REPAIR KITS**

T5572	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.



# CDX1-1745

# CDX1-1746

**1-inch exit ferrite  
magnet compression  
driver**

**40Wrms**

(AES standard)  
power rating

**110dB**  
sensitivity



**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

#### GENERAL SPECIFICATIONS

Power rating <sup>1</sup>	40Wrms
Continuous power rating <sup>2</sup>	80W
Nominal impedance	8Ω
Sensitivity <sup>3</sup>	110dB
Frequency	1,200-20,000Hz
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	PETP film
Surround material	PETP film

#### 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)	
Fitting (1746)	Screw (35mm/1.38in diameter)
Throat exit	25mm/1in

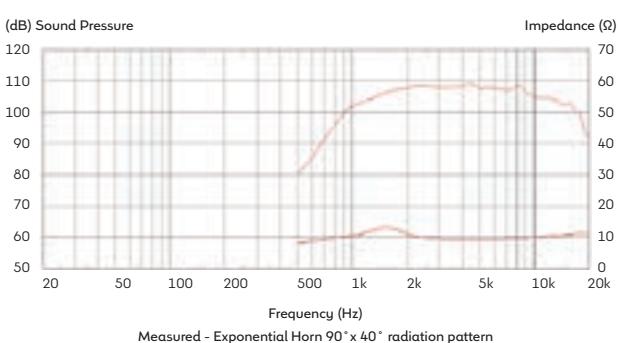
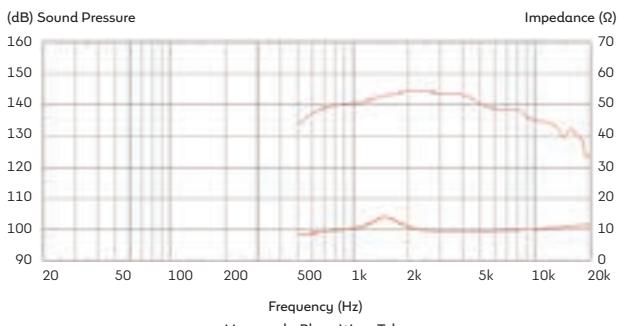
#### PACKED DIMENSIONS & WEIGHT

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

T5510	Diaphragm repair kit (8Ω)
T5523	Diaphragm repair kit (16Ω)
T5359	H1-9040P Horn
T5134	H1-7050 'No Bell' Horn
T5951	H1SC-9050 Horn (screw)
T5952	H1SC-8050 Horn (screw)

#### 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

# CDX1-1447

**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 <sup>1</sup> .....	35Wrms
Continuous power rating <sup>2</sup> .....	70W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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 .....	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

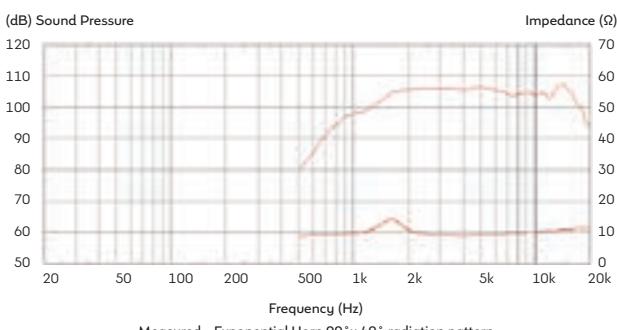
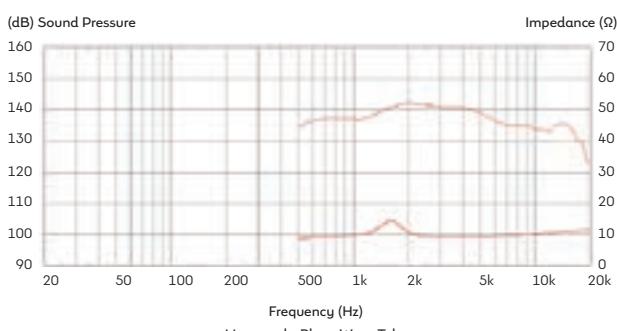
Single pack size (WxDxH).....	110mm x 98mm x 81mm 4.3in x 3.9in x 3.2in
Single pack weight.....	1.5kg/3.3lb
Multi pack qty.....	16
Multi pack size (WxDxH).....	495mm x 495mm x 90mm 19.5in x 19.5in x 3.5in
Multi pack weight.....	17kg/37.4lb

#### HORNS & REPAIR KITS

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.



# CDX1-1445

# CDX1-1446

**1-inch exit ferrite  
magnet compression  
driver**



**20Wrms**  
(AES standard)  
power rating

**106dB**  
sensitivity

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

- 2,200Hz recommended min. crossover freq (12dB/oct)
- Single piece PETP diaphragm and surround
- Integrated diaphragm and rear cover for ease of replacement
- Flange (CDX1-1445) and screw (CDX1-1446) fitting versions available

## GENERAL SPECIFICATIONS

Power rating <sup>1</sup>	20Wrms
Continuous power rating <sup>2</sup>	40W
Nominal impedance	8Ω
Sensitivity <sup>3</sup>	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

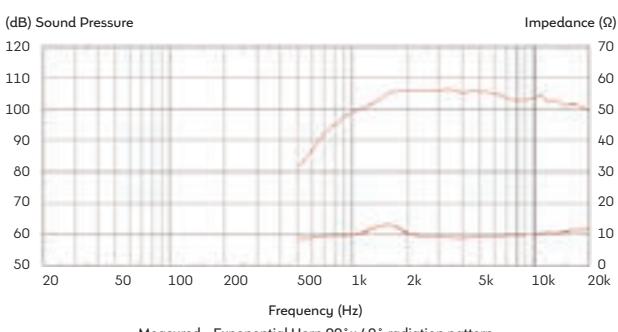
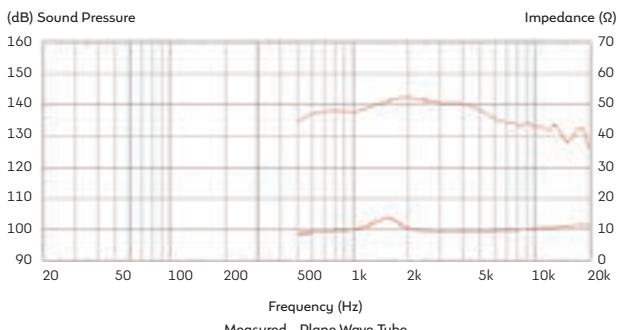
## PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH)	110mm x 98mm x 81mm
	4.3in x 3.9in x 3.2in
Single pack weight	1.5kg/3.3lb
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

T5549	Diaphragm repair kit (8Ω)
T5557	Diaphragm repair kit (16Ω)
T5359	H1-9040P Horn
T5134	H1-7050 'No Bell' Horn
T5951	H1SC-9050 Horn (screw)
T5952	H1SC-8050 Horn (screw)

## 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

# CDX1-1440

**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

Power rating <sup>1</sup> .....	25Wrms
Continuous power rating <sup>2</sup> .....	50W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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 .....	Titanium
Surround material .....	Titanium

#### 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

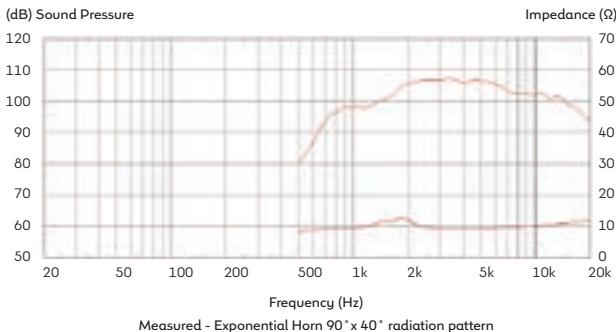
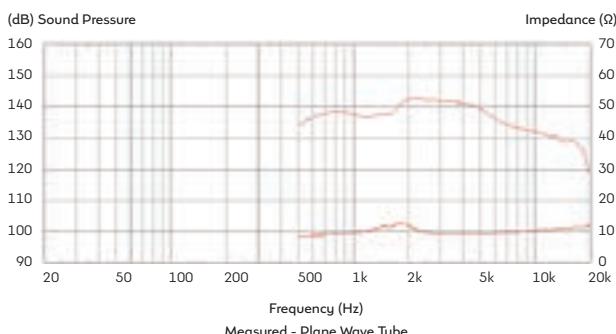
Multi pack qty .....	16
Multi pack size (WxDxH) .....	495mm x 495mm x 90mm 19.5in x 19.5in x 3.5in
Multi pack weight .....	17kg/37.4lb

#### HORNS & REPAIR KITS

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 2n anechoic environment.



## CDX1-1010

**1-inch exit ferrite  
magnet compression  
driver**



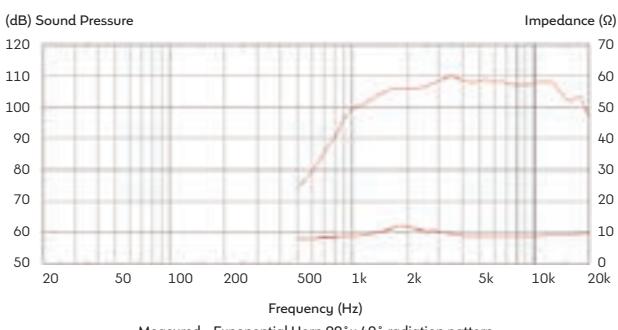
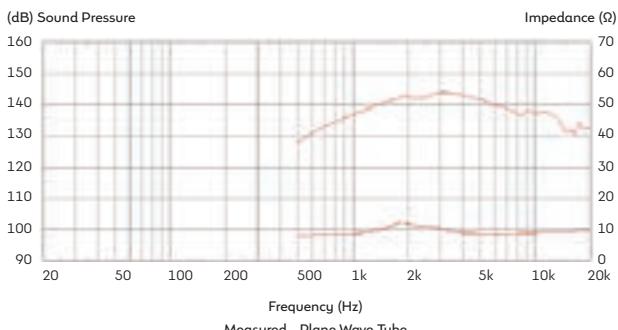
**15Wrms**  
(AES standard)  
power rating

**107dB**  
sensitivity

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

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

### 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 <sup>1</sup> .....	15Wrms
Continuous power rating <sup>2</sup> .....	30W
Nominal impedance .....	8Ω
Sensitivity .....	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 4.4in x 4in x 2.8in
Single pack weight.....	1.1kg/2.4lb
Multi pack qty.....	16
Multi pack size (WxDxH).....	480mm x 480mm x 75mm 18.9in x 18.9in x 2.95in
Multi pack weight.....	15kg/33lb

### HORNS

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

**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 <sup>1</sup> .....	12Wrms
Continuous power rating <sup>2</sup> .....	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**

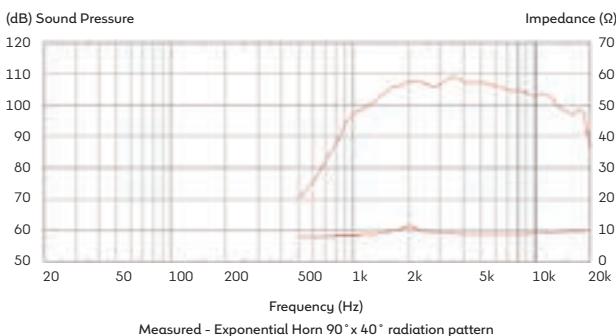
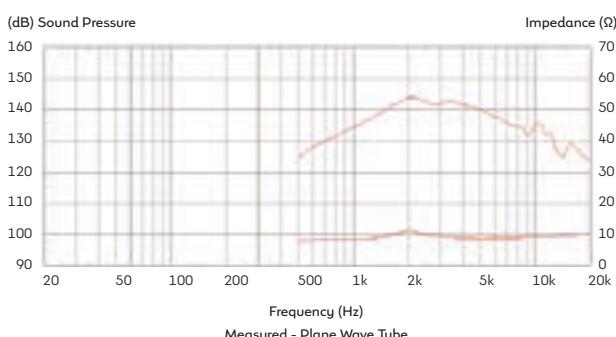
Width .....	70mm/2.8in
Depth .....	50mm/2in
Unit weight .....	0.7kg/1.5lb
Fitting .....	Flange (2 x M6 holes on 76mm/3in PCD)
Throat exit .....	25mm/1in

**PACKED DIMENSIONS & WEIGHT**

Single pack size (WxDxH) .....	98mm x 98mm x 77mm 3.8in x 3.8in x 3in
Single pack weight .....	1kg/2.2lb

**HORNS**

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.



CELESTION

# 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

Horn type .....	Exponential
Radiation pattern.....	70° x 50°
Horn materia.....	Cast Aluminium
Baffle cut-out .....	ø155mm/6.1in
Driver mounting detail .....	Flange: 2x M6 holes on ..... 76mm/3in PCD
Throat exit.....	25.1mm/1in
Height .....	180mm/7.1in
Width .....	180mm/7.1in
Depth.....	90mm/3.5mm
Weight.....	0.7kg/1.5lb

#### PACKED DIMENSIONS & WEIGHT

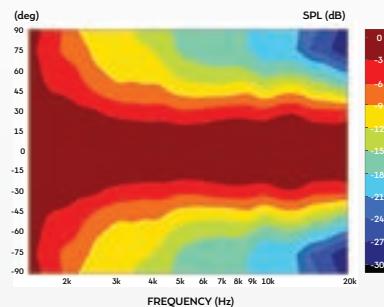
Single pack size (WxDxH) .	190mm x 190mm x 65mm ..... 7.5in x 7.5in x 2.6in
Single pack weight.....	1.0kg/2.2lb
Multi pack size (WxDxH)	390mm x 390mm x 560mm ..... 15.4in x 15.4in x 22in
Multi pack (24) weight .....	18kg/39.6lb

#### COMPATIBLE COMPRESSION DRIVERS

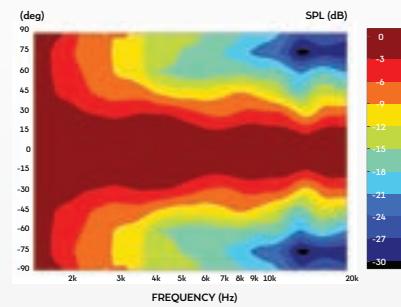
CDX1-1747, CDX1-1742, CDX1-1740, CDX1-1745,  
CDX1-1732, CDX1-1730, CDX1-1720, CDX1-1447,  
CDX1-1445, CDX1-1440, CDX1-1430, CDX1-1425,  
CDX1-1415, CDX1-1070

#### PERFORMANCE WITH TYPICAL COMPRESSION DRIVER

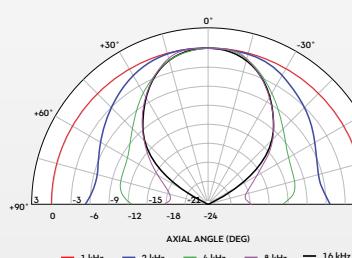
**HORIZONTAL CONTOUR**



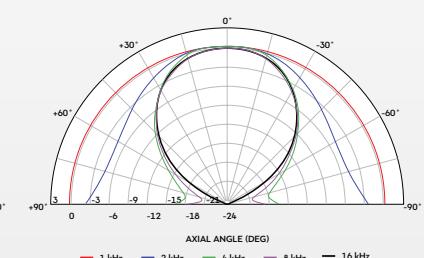
**VERTICAL CONTOUR**



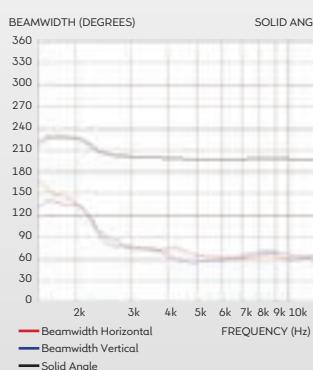
**HORIZONTAL POLAR**



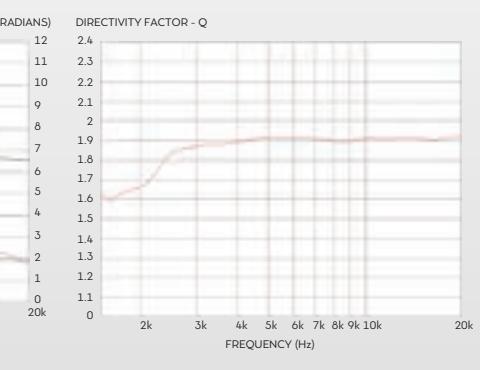
**VERTICAL CONTOUR**



#### BEAMWIDTH & SOLID ANGLE



#### DIRECTIVITY FACTOR - Q



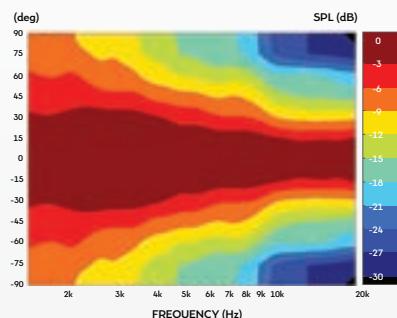


## H1-9040P

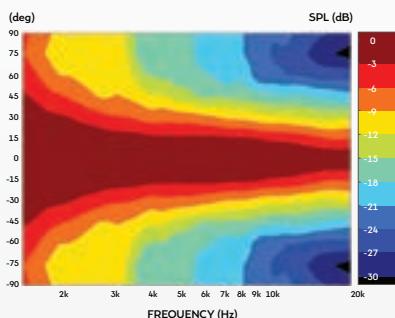
**Compression driver horn**

### PERFORMANCE WITH TYPICAL COMPRESSION DRIVER

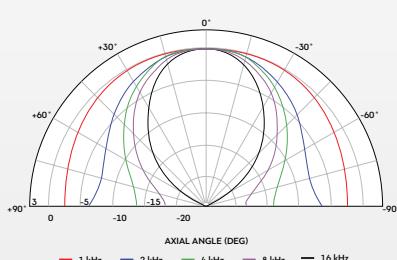
HORIZONTAL CONTOUR



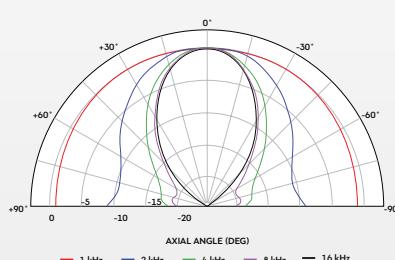
VERTICAL CONTOUR



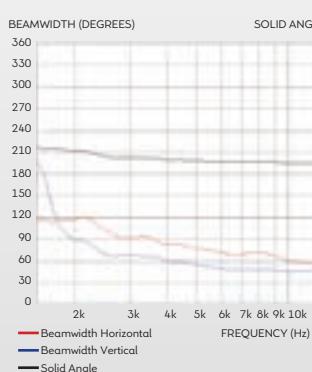
HORIZONTAL POLAR



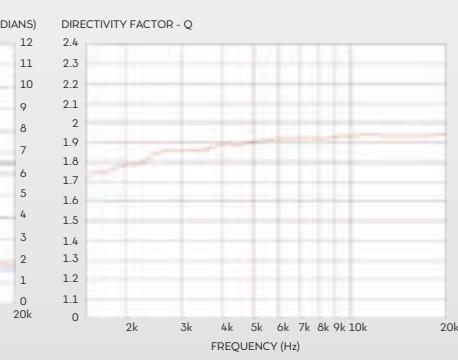
VERTICAL CONTOUR



BEAMWIDTH & SOLID ANGLE



DIRECTIVITY FACTOR



**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/8.2mm
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/3.3lb
Multi pack (10) size (WxDxH) 650mmx500mmx240mm .....	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/3.46mm
Weight.....	0.2kg/0.44lb

## PACKED DIMENSIONS & WEIGHT

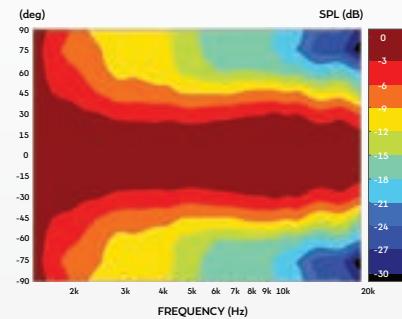
Single pack size (WxDxH) .186mm x 186mm x 102mm .....	7.3in x 7.3in x 4in
Single pack weight.....	0.22kg/0.48lb

## COMPATIBLE COMPRESSION DRIVERS

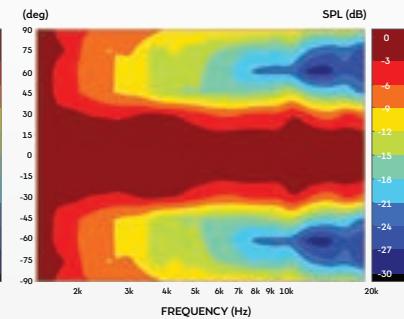
CDX1-1748, CDX1-1746, CDX1-1731, CDX1-1446,  
CDX1-1010

## PERFORMANCE WITH TYPICAL COMPRESSION DRIVER

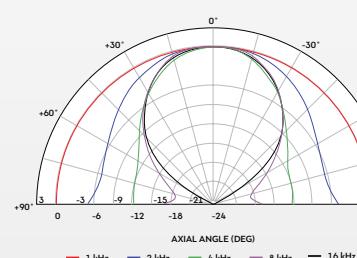
**HORIZONTAL CONTOUR**



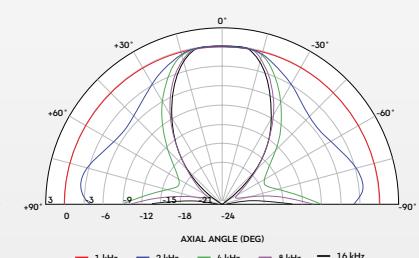
**VERTICAL CONTOUR**



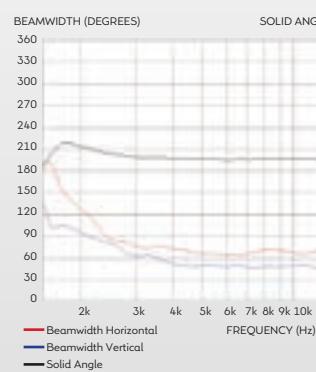
**HORIZONTAL POLAR**



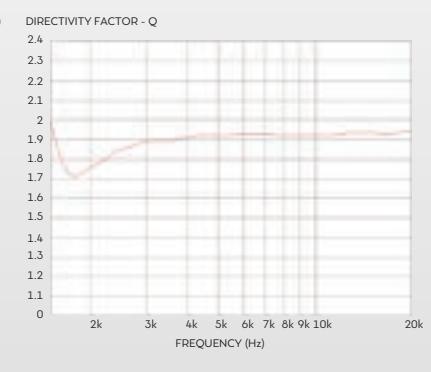
**VERTICAL CONTOUR**



## BEAMWIDTH & SOLID ANGLE



## DIRECTIVITY FACTOR



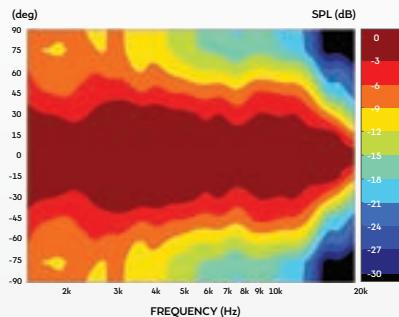


# H1SC-9040

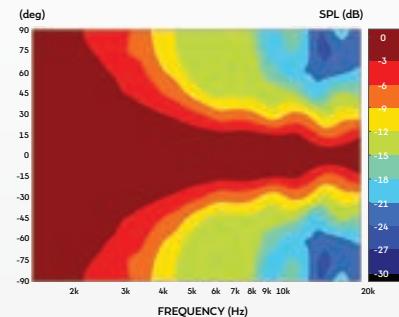
**Compression  
driver horn**

## PERFORMANCE WITH TYPICAL COMPRESSION DRIVER

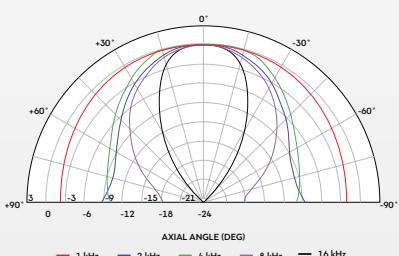
**HORIZONTAL CONTOUR**



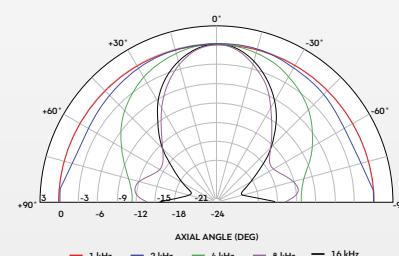
**VERTICAL CONTOUR**



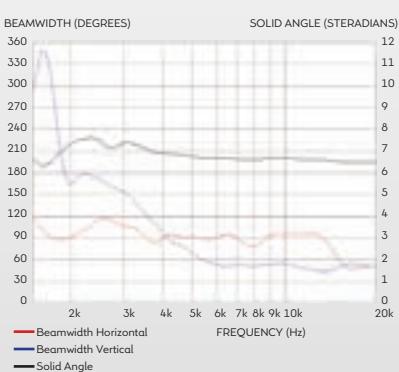
**HORIZONTAL POLAR**



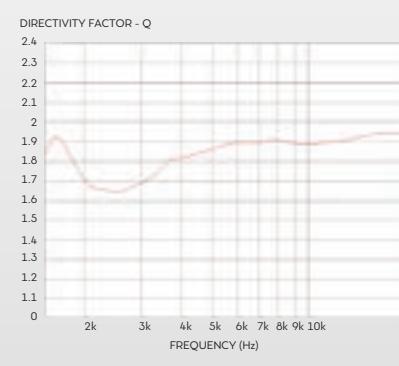
**VERTICAL CONTOUR**



**BEAMWIDTH & SOLID ANGLE**



**DIRECTIVITY FACTOR**



**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

## 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/5.7mm
Weight.....	0.23kg/0.51lb

## PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) ..	.305mm x 112mm x 156mm
.....	12in x 4.4in x 6.1in
Single pack weight.....	0.25kg/0.55lb

## COMPATIBLE COMPRESSION DRIVERS

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



# COAXIAL

Ferrite magnet,  
coaxial drivers

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

See pages 56-57 for additional performance data.

# FTX1530

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



AXI HF NEO HFFERRITE HORNS COAXIAL

COMPACT ARRAY DRIVER LF CAST CHASSIS NEO

LF CAST CHASSIS FERRITE

LF PRESS'D CHASSIS NEO

LF PRESS'D CHASSIS FERRITE

#### GENERAL SPECIFICATIONS: LF

Nominal diameter .....	381mm/15in
Power rating <sup>1</sup> .....	400Wrms
Continuous power rating <sup>2</sup> .....	800W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	97dB
Frequency range .....	40-4,000Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	2.3kg/81oz
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 <sup>4</sup> .....	4mm/0.16in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	16mm/0.63in

#### SMALL SIGNAL PARAMETERS

Sd .....	855.3cm <sup>2</sup> /132.57in <sup>2</sup>
Fs .....	42.5Hz
Mms .....	84.29g/2.97oz
Qms .....	3.809
Qes .....	0.297
Qts .....	0.28
Re .....	5.36Ω
Vas .....	172.07l/6.08ft <sup>3</sup>
Bl .....	20.16Tm
Cms .....	0.17mm/N
Rms .....	5.91kg/s
Le (at 1kHz) .....	0.82mH

#### GENERAL SPECIFICATIONS: HF

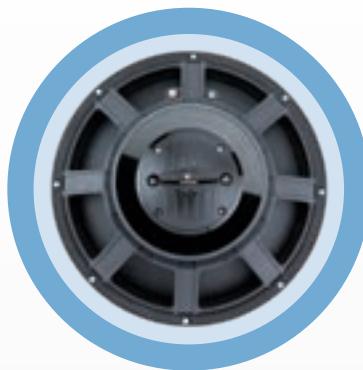
Power rating <sup>5</sup> .....	75Wrms
Continuous power rating <sup>6</sup> .....	150W
Nominal impedance .....	8Ω
Sensitivity .....	106.5dB
Frequency range .....	800-18,000Hz
Recommended min. crossover (12dB/oct) .....	1,000Hz
Voice coil diameter .....	75mm/3in
Magnet type .....	Dual ferrite magnet motor
Diaphragm material .....	Titanium
Surround material .....	Polyimide

#### MOUNTING INFORMATION

Overall diameter .....	387mm/15.24in
Overall depth .....	176mm/6.93in
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/14.37-14.76/in
Unit weight .....	6.5kg/14.3lb

#### PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	428mm x 428mm x 228mm ..... 16.8in x 16.8in x 8.9in
Single pack weight .....	7.5kg/16.5lb
Multi pack qty .....	36
Multi pack size (WxDxH) .....	1050mm x 1200mm x 950mm ..... 41.3in x 47.2in x 37.4in
Multi pack weight .....	265kg/580lb



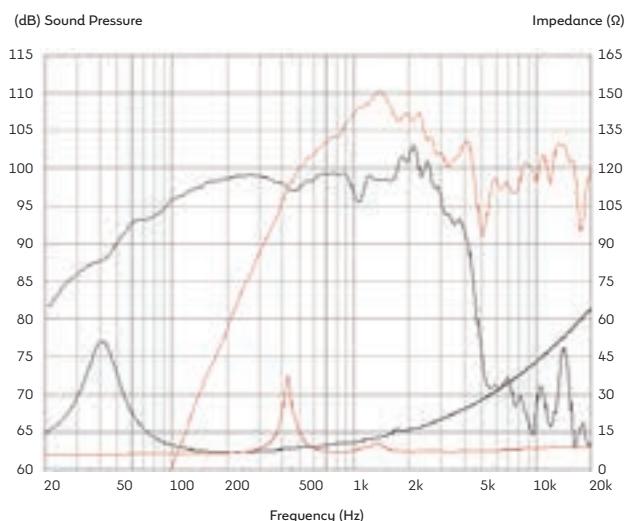
**400Wrms**  
(AES standard)  
power rating

**97dB**  
sensitivity

**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



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.

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 2n 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.

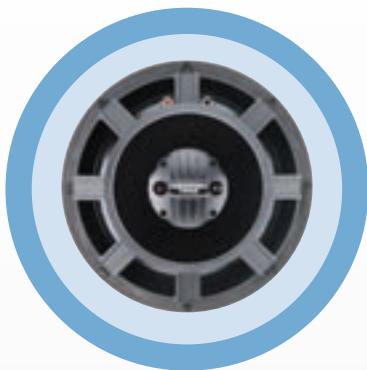
6. Continuous Power Handling is defined as 3dB greater than the AES rating.

Suggested crossover design available online at [celestion.com/speakerworld](http://celestion.com/speakerworld)



## FTX1225

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



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

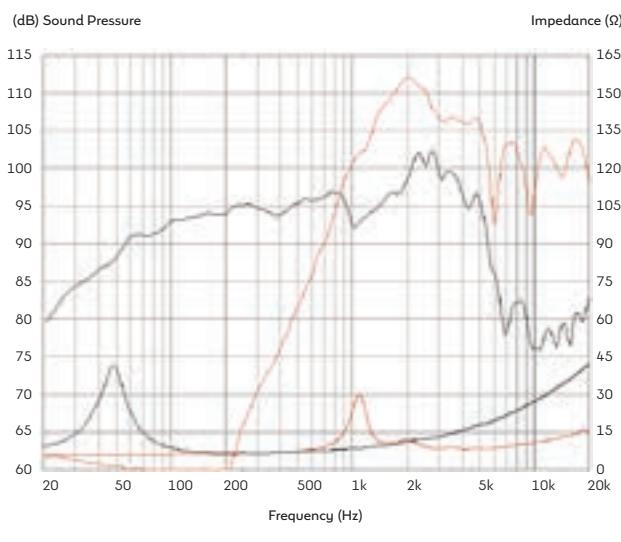
**97dB**  
sensitivity

**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

### 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 2n 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 [celestion.com/speakerworld](http://celestion.com/speakerworld)

#### GENERAL SPECIFICATIONS: LF

Nominal diameter .....	305mm/12in
Power rating <sup>1</sup> .....	300Wrms
Continuous power rating <sup>2</sup> .....	600W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	97dB
Frequency range .....	50-4,000Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	2.3kg/81oz
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
Xmax <sup>4</sup> .....	4mm/0.16in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	16mm/0.63in

#### SMALL SIGNAL PARAMETERS

Sd.....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
Fs.....	42.1Hz
Mms.....	47.53g/1.68oz
Qms.....	3.345
Qes.....	0.459
Qts.....	0.403
Re.....	5.74Ω
Vas.....	12.08l/0.43ft <sup>3</sup>
Bl.....	12.54Tm
Cms.....	0.3mm/N
Rms.....	3.76kg/s
Le (at 1kHz) .....	0.5mH

#### GENERAL SPECIFICATIONS: HF

Power rating <sup>5</sup> .....	60Wrms
Continuous power rating <sup>6</sup> .....	120W
Nominal impedance .....	8Ω
Sensitivity .....	104dB
Frequency range .....	1,000-18,000Hz
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 14.3in x 14.3in x 7.4in
Single pack weight .....	6.7kg/14.7lb
Multi pack qty .....	48
Multi pack size (WxDxH) .....	970mm x 1070mm x 850mm 38.1in x 42.1in x 33.4in
Multi pack weight .....	315kg/690lb

# FTX1025

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



#### GENERAL SPECIFICATIONS: LF

Nominal diameter .....	254mm/10in
Power rating <sup>1</sup> .....	300Wrms
Continuous power rating <sup>2</sup> .....	600W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	96dB
Frequency range .....	60-5,000Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	1.5kg/54oz
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
Xmax <sup>4</sup> .....	3mm/0.12in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	14mm/0.55in

#### SMALL SIGNAL PARAMETERS

Sd .....	346.36cm <sup>2</sup> /53.69in <sup>2</sup>
Fs .....	71.5Hz
Mms .....	32.55g/1.15oz
Qms .....	2.788
Qes .....	0.523
Qts .....	0.44
Re .....	5.42Ω
Vas .....	25.85l/0.91ft <sup>3</sup>
Bl .....	12.3Tm
Cms .....	0.15mm/N
Rms .....	5.25kg/s
Le (at 1kHz) .....	0.48mH

#### GENERAL SPECIFICATIONS: HF

Power rating <sup>5</sup> .....	40Wrms
Continuous power rating <sup>6</sup> .....	80W
Nominal impedance .....	8Ω
Sensitivity .....	104dB
Frequency range .....	1,000-20,000Hz
Recommended min. crossover (12dB/oct) .....	2,000Hz
Voice coil diameter .....	34mm/1.4in
Magnet type .....	Dual ferrite magnet motor
Diaphragm material .....	Polyimide
Surround material .....	Polyimide

#### MOUNTING INFORMATION

Overall diameter .....	260mm/10.24in
Overall depth .....	113mm/4.46in
Cut-out diameter .....	234mm/9.21in
Mounting slot dimensions .....	7.5 x 6.5mm/0.29 x 0.26in
Number of mounting slots .....	8
Mounting slot PCD .....	244-247mm/9.6-9.7in
Unit weight .....	4.5kg/9.9lb

#### PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	303mm x 303mm x 178mm ..... 11.9in x 11.9in x 7in
Single pack weight .....	5.2kg/11.4lb
Multi pack qty .....	32
Multi pack size (WxDxH) .....	960mm x 1070mm x 890mm ..... 37.7in x 42.1in x 35in
Multi pack weight .....	175kg/205lb



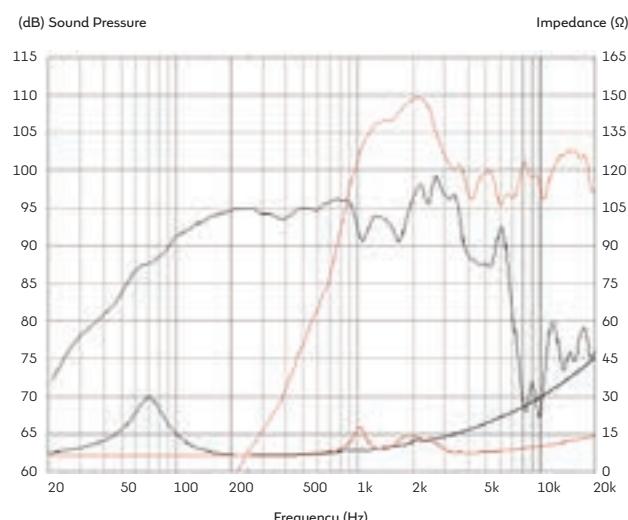
**300Wrms**  
(AES standard)  
power rating

**96dB**  
sensitivity

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

**1.4-inch**  
copper clad  
aluminium voice  
coil (HF)

#### FREQUENCY RESPONSE AND IMPEDANCE CURVES



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.

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 2n 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 [celestion.com/speakerworld](http://celestion.com/speakerworld)



## FTX0820

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



**200Wrms**  
(AES standard)  
power rating

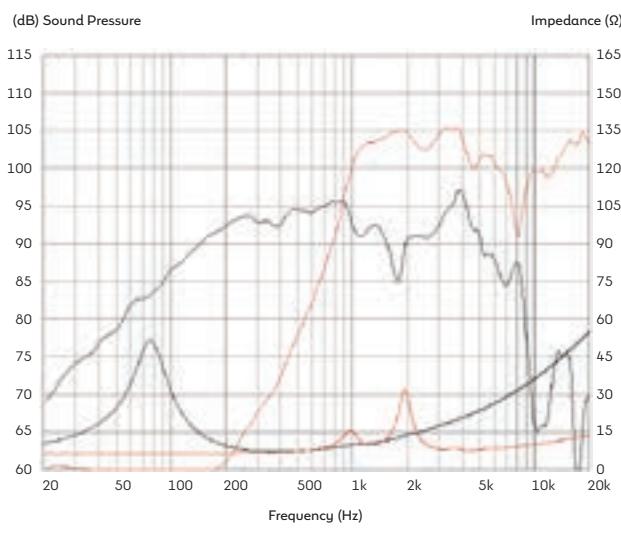
**94dB**  
sensitivity

**2-inch**  
edgewound copper  
voice coil (LF)

**1.4-inch**  
copper clad  
aluminium voice  
coil (HF)

- 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

### FREQUENCY RESPONSE AND IMPEDANCE CURVES



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. 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 2n 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 [celestion.com/speakerworld](http://celestion.com/speakerworld)

#### GENERAL SPECIFICATIONS: LF

Nominal diameter .....	200mm/8in
Power rating <sup>1</sup> .....	200Wrms
Continuous power rating <sup>2</sup> .....	400W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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
Suspension .....	Single
Xmax <sup>4</sup> .....	2mm/0.8in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	12mm/0.47in

#### SMALL SIGNAL PARAMETERS

Sd.....	226.98cm <sup>2</sup> /35.18in <sup>2</sup>
Fs.....	78.8Hz
Mms.....	22.66g/0.8oz
Qms.....	2.8
Qes.....	0.31
Qts.....	0.279
Re.....	5.85Ω
Vas.....	13.13l/0.46ft <sup>3</sup>
Bl.....	14.56Tm
Cms.....	0.18mm/N
Rms.....	4.01kg/s
Le (at 1kHz) .....	0.62mH

#### GENERAL SPECIFICATIONS: HF

Power rating <sup>5</sup> .....	40Wrms
Continuous power rating <sup>6</sup> .....	80W
Nominal impedance .....	8Ω
Sensitivity .....	103dB
Frequency range .....	1,500-20,000Hz
Recommended min. crossover (12dB/oct) .....	2,200Hz
Voice coil diameter .....	34mm/1.4in
Magnet type .....	Dual ferrite magnet motor
Diaphragm material .....	Polyimide
Surround material .....	Polyimide

#### MOUNTING INFORMATION

Overall diameter .....	225mm/8.6in (octagonal profile)
Overall depth .....	114mm/4.5in
Cut-out diameter .....	187mm/7.36in
Mounting slot dimensions .....	Ø6.5mm/0.26in
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 238mm x 148mm
.....	9.3in x 9.3in x 5.8in
Single pack weight .....	4.7kg/10.3lb
Multi pack qty .....	40
Multi pack size (WxDxH) .....	890mm x 1100mm x 890mm
.....	35in x 43.3in x 35in
Multi pack weight .....	195kg/430lb

# FTX0617

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



#### GENERAL SPECIFICATIONS: LF

Nominal diameter .....	165mm/6.5in
Power rating <sup>1</sup> .....	150Wrms
Continuous power rating <sup>2</sup> .....	300W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	92dB
Frequency range .....	100-6,000Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	0.88kg/31oz
Voice coil diameter .....	44mm/1.75in
Voice coil material .....	Edgewound copper clad aluminium
Former material .....	Glass fibre
Cone material .....	Kevlar loaded paper
Surround material .....	Cloth-sealed
Suspension .....	Single
Xmax <sup>4</sup> .....	2mm/0.08in
Gap depth .....	6mm/0.24in
Voice coil winding width .....	10mm/0.4in

#### SMALL SIGNAL PARAMETERS

Sd .....	153.94cm <sup>2</sup> /23.86in <sup>2</sup>
Fs .....	100Hz
Mms .....	11.58g/0.41oz
Qms .....	3.651
Qes .....	0.925
Qts .....	0.738
Re .....	5.52Ω
Vas .....	7.37l/0.26ft <sup>3</sup>
Bl .....	6.59Tm
Cms .....	0.22mm/N
Rms .....	1.99kg/s
Le (at 1kHz) .....	0.27mH

#### GENERAL SPECIFICATIONS: HF

Power rating <sup>5</sup> .....	40Wrms
Continuous power rating <sup>6</sup> .....	80W
Nominal impedance .....	8Ω
Sensitivity .....	103dB
Frequency range .....	1,500-20,000Hz
Recommended min. crossover (12dB/oct) .....	2,200Hz
Voice coil diameter .....	34mm/1.4in
Magnet type .....	Dual ferrite magnet motor
Diaphragm material .....	Polyimide
Surround material .....	Polyimide

#### MOUNTING INFORMATION

Overall diameter .....	189mm/7.44in (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

Single pack size (WxDxH) .....	190mm x 190mm x 128mm ..... 7.4in x 7.4in x 5in
Single pack weight .....	3.5kg/7.7lb
Multi pack qty .....	8
Multi pack size (WxDxH) .....	350mm x 350mm x 240mm ..... 13.7in x 13.7in x 9.4in
Multi pack weight .....	30kg/65lb



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

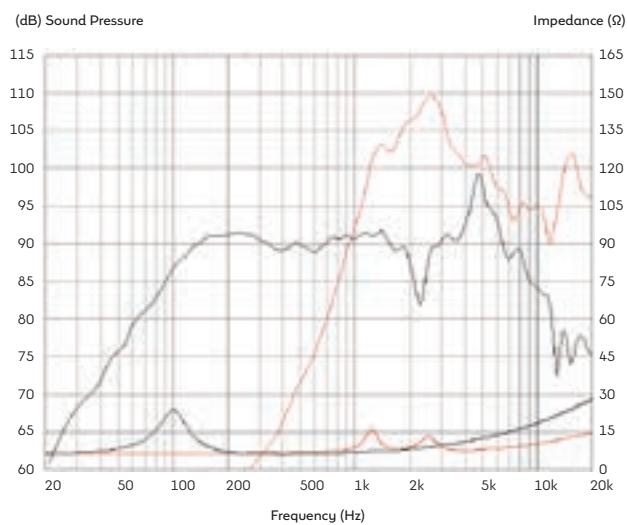
**92dB**  
sensitivity

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

**1.4-inch**  
copper clad  
aluminium voice  
coil (HF)

- 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

#### FREQUENCY RESPONSE AND IMPEDANCE CURVES



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.

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 2n 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 [celestion.com/speakerworld](http://celestion.com/speakerworld)



NEW

**TFX0615**

**6.5-inch pressed steel chassis, ferrite magnet coaxial driver**



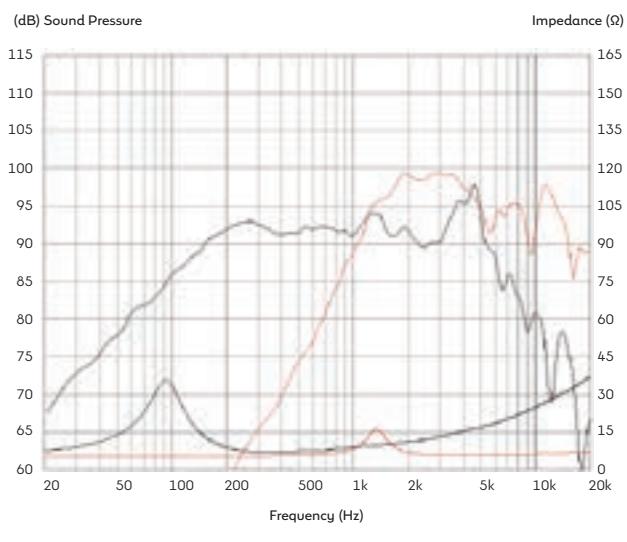
**150Wrms**  
(AES standard)  
power rating

**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**

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 2n anechoic environment.  
4. Xmax 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](http://celestion.com/speakerworld)

**GENERAL SPECIFICATIONS: LF**

Nominal diameter .....	165mm/6.5in
Power rating <sup>1</sup> .....	150Wrms
Continuous power rating <sup>2</sup> .....	300W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	94dB
Frequency range .....	100-6,000Hz
Chassis type .....	Pressed Steel
Magnet type .....	Ferrite
Magnet weight .....	0.81kg/23oz
Voice coil diameter .....	38mm/1.5in
Voice coil material .....	Round copper
Former material .....	Polyimide
Cone material .....	Kevlar loaded paper
Surround material .....	Cloth-sealed
Suspension .....	Single
Xmax <sup>4</sup> .....	3.75mm/0.15in
Gap depth .....	6mm/0.24in
Voice coil winding width .....	13.5mm/0.53in

**SMALL SIGNAL PARAMETERS**

Sd .....	153.94cm <sup>2</sup> /23.86in <sup>2</sup>
Fs .....	96.8Hz
Mms .....	12.62g/0.45oz
Qms .....	3.038
Qes .....	0.429
Qts .....	0.376
Re .....	5.39Ω
Vas .....	7.18l/0.25ft <sup>3</sup>
Bl .....	9.82Tm
Cms .....	0.21mm/N
Rms .....	2.53kg/s
Le (at 1kHz) .....	0.46mH

**GENERAL SPECIFICATIONS: HF**

Power rating .....	10Wrms
Continuous power rating <sup>5</sup> .....	20W
Nominal impedance .....	8Ω
Sensitivity .....	98dB
Frequency range .....	1,700-20,000Hz
Recommended min. crossover (12dB/oct) .....	2,200Hz
Voice coil diameter .....	25mm/1in
Magnet type .....	Neodymium
Diaphragm material .....	Silk
Surround material .....	Silk

**MOUNTING INFORMATION**

Overall diameter .....	178mm/7in (max)
Overall depth .....	75.5mm/3in
Cut-out diameter .....	145mm/5.7in
Mounting slot dimensions .....	ø4.0mm/0.16in
Number of mounting slots .....	4
Mounting slot PCD .....	168.5mm/6.63in
Unit weight .....	2.1kg/4.6lb

**PACKED DIMENSIONS & WEIGHT**

Multi pack qty .....	36
Multi pack size (WxDxH) .....	742mm x 541mm x 300mm
.....	29.2in x 21.3in x 11.8in
Multi pack weight .....	80kg/176lb

# TFX0512

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

**NEW**



#### GENERAL SPECIFICATIONS: LF

Nominal diameter .....	125mm/5in
Power rating <sup>1</sup> .....	100Wrms
Continuous power rating <sup>2</sup> .....	200W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	92dB
Frequency range .....	70-4,000Hz
Chassis type .....	Pressed Steel
Magnet type .....	Ferrite
Magnet weight .....	0.48kg/17oz
Voice coil diameter .....	32mm/1.25in
Voic coil material .....	Round copper
Former material .....	Polyimide
Cone material .....	Kevlar loaded paper
Surround material .....	Elastomer
Suspension .....	Single
Xmax <sup>4</sup> .....	3.25mm/0.13in
Gap depth .....	6mm/0.24in
Voice coil winding width .....	12mm/0.47in

#### SMALL SIGNAL PARAMETERS

Sd .....	78.54cm <sup>2</sup> /12.17in <sup>2</sup>
Fs .....	69.1Hz
Mms .....	8.6g/0.3oz
Qms .....	6.184
Qes .....	0.494
Qts .....	0.46
Re .....	5.45Ω
Vas .....	5.38l/0.19ft <sup>3</sup>
Bl .....	6.42Tm
Cms .....	0.62mm/N
Rms .....	0.6kg/s
Le (at 1kHz) .....	0.37mH

#### GENERAL SPECIFICATIONS: HF

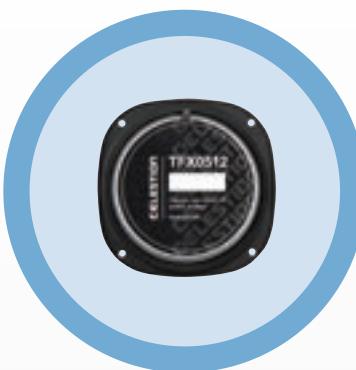
Power rating .....	8Wrms
Continuous power rating <sup>5</sup> .....	16W
Nominal impedance .....	8Ω
Sensitivity .....	97dB
Frequency range .....	2,000-20,000Hz
Recommended min. crossover (12dB/oct) .....	2,500Hz
Voice coil diameter .....	19mm/0.75in
Magnet type .....	Neodymium
Diaphragm material .....	Silk
Surround material .....	Silk

#### MOUNTING INFORMATION

Overall diameter .....	151mm/5.9in (max)
Overall depth .....	72mm/2.8in
Cut-out diameter .....	116mm/4.6in
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 287mm x 300mm 29.2in x 11.3in x 11.8in
Multi pack weight .....	125kg/275lb



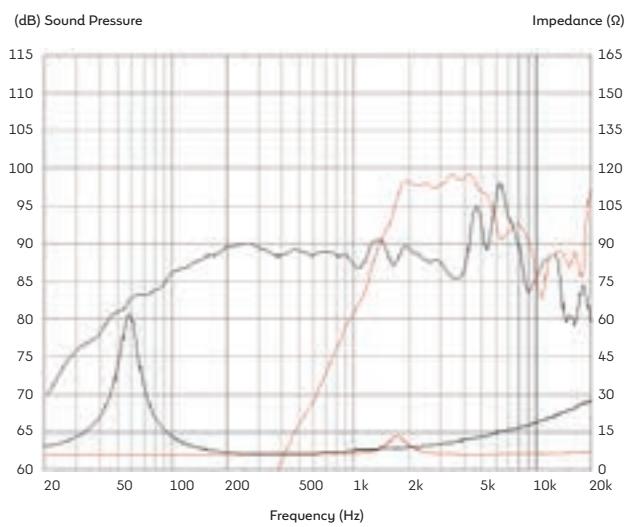
**100Wrms**  
(AES standard)  
power rating

**92dB**  
sensitivity

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

**0.75-inch**  
copper clad  
aluminium voice  
coil (HF)

#### FREQUENCY RESPONSE AND IMPEDANCE CURVES



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.  
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 2n anechoic environment.

4. Xmax 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](http://celestion.com/speakerworld)



## TF1225CX

**12-inch pressed steel chassis, ferrite magnet coaxial driver**



**250Wrms**  
(AES standard)  
power rating

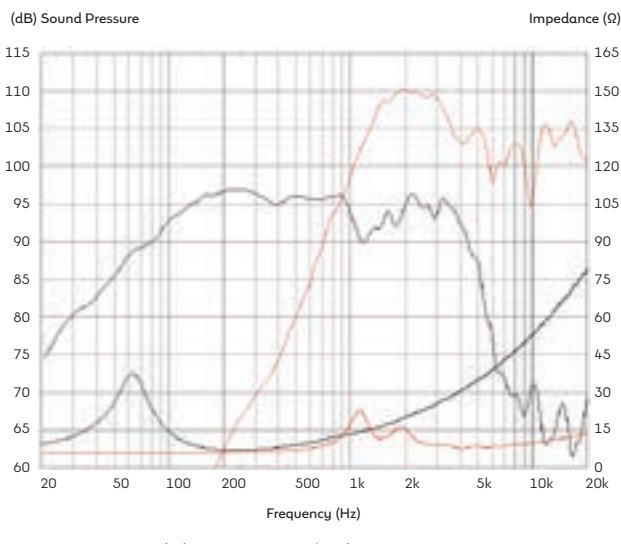
**97dB**  
sensitivity

**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

### 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 2n anechoic environment.
  4.  $X_{max}$  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 [celestion.com/speakerworld](http://celestion.com/speakerworld)

#### GENERAL SPECIFICATIONS: LF

Nominal diameter .....	305mm/12in
Power rating <sup>1</sup> .....	250Wrms
Continuous power rating <sup>2</sup> .....	500W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	97dB
Frequency range .....	40-4,000Hz
Chassis type .....	Pressed Steel
Magnet type .....	Ferrite
Magnet weight .....	1.2kg/4.2oz
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
$X_{max}^4$ .....	2.5mm/0.098in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	13mm/0.51in

#### SMALL SIGNAL PARAMETERS

$S_d$ .....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
$F_s$ .....	63.5Hz
$M_{ms}$ .....	55.59g/1.96oz
$Q_{ms}$ .....	3.119
$Q_{es}$ .....	0.405
$Q_{ts}$ .....	0.358
$R_e$ .....	5.57Ω
$V_{as}$ .....	45.12l/1.59ft <sup>3</sup>
$B_l$ .....	17.46Tm
$C_{ms}$ .....	0.11mm/N
$R_{ms}$ .....	7.11kg/s
$L_e$ (at 1kHz) .....	1.2mH

#### GENERAL SPECIFICATIONS: HF

Power rating <sup>5</sup> .....	40Wrms
Continuous power rating <sup>6</sup> .....	80W
Nominal impedance .....	8Ω
Sensitivity .....	110dB
Frequency range .....	1,200-18,000Hz
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/12.2in
Overall depth .....	172mm/6.77in
Cut-out diameter .....	286mm/11.2in
Mounting slot dimensions .....	Ø7.9mm/0.31in
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 13.9in x 13.9in x 7.4in
Single pack weight .....	5.4kg/11.8lb
Multi pack qty .....	48
Multi pack size (WxDxH) .....	970mm x 1070mm x 850mm 38.1in x 42.1in x 33.4in
Multi pack weight .....	250kg/550lb

# COAXIAL

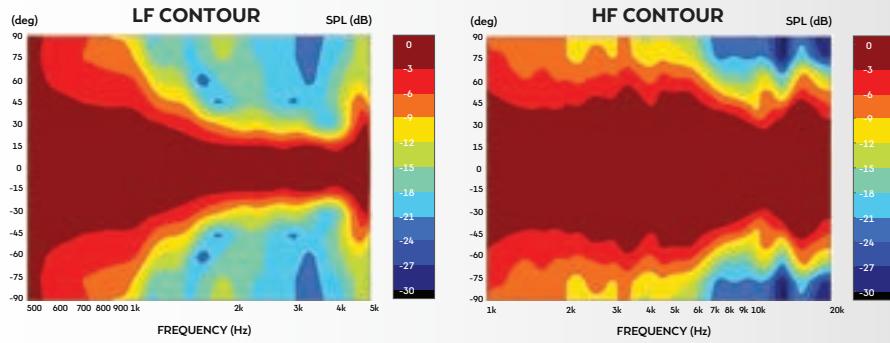
AXI HF NEO HFFERRITE HORNS COAXIAL

COMPACT ARRAY DRIVER LF CAST CHASSIS NEO

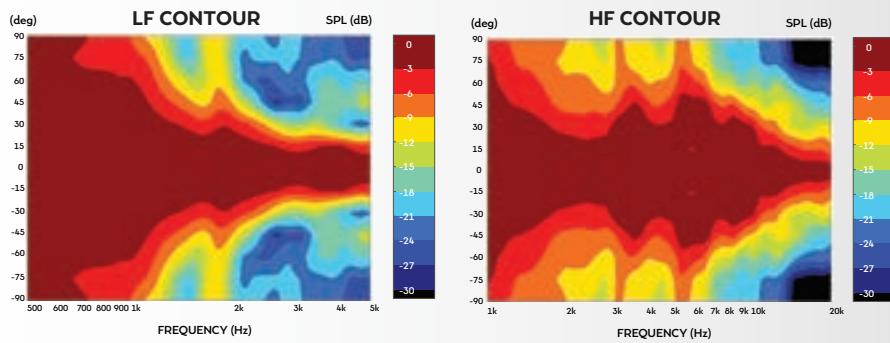
LF CAST CHASSIS FERRITE LF PRESSED CHASSIS NEO

LF PRESSED CHASSIS FERRITE

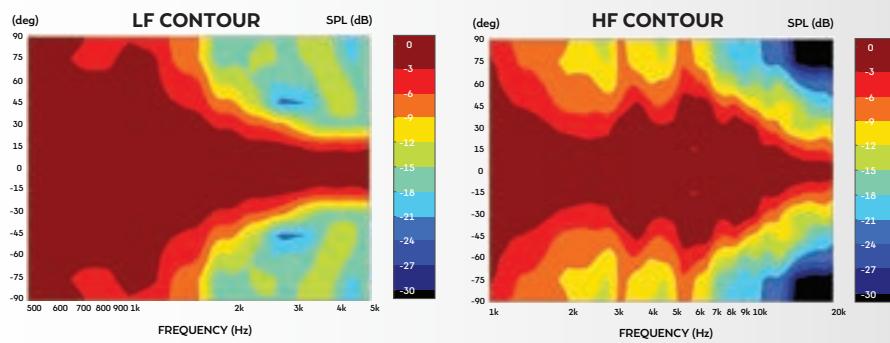
FTX1530



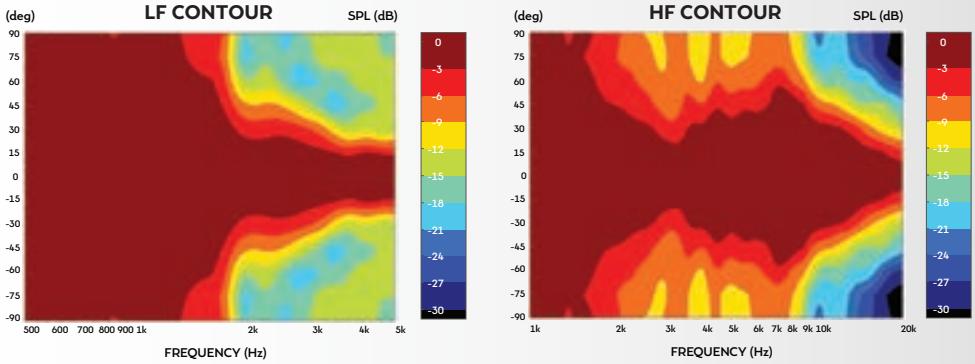
FTX1225



FTX1025



FTX0820

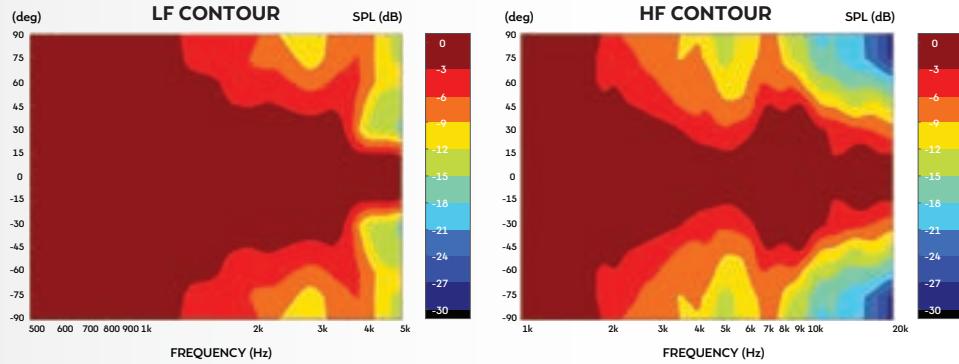


# COAXIAL

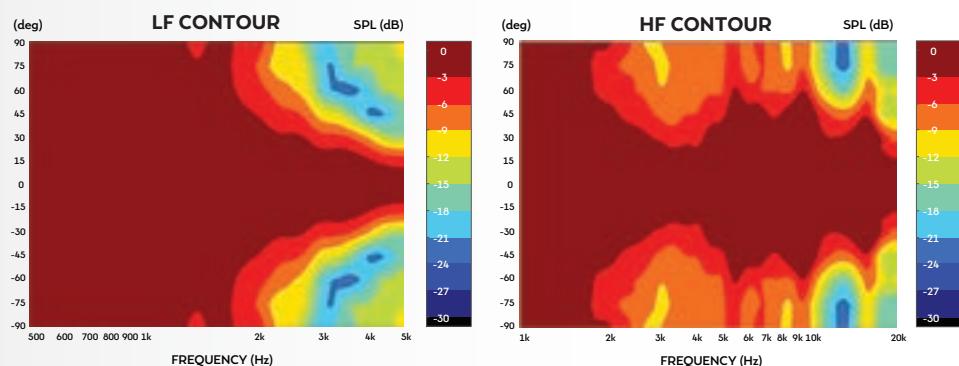
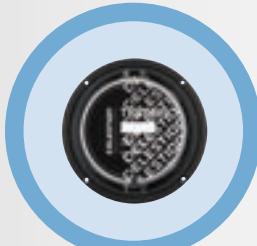
AXI HF NEO HF FERRITE HORNS COAXIAL

COMPACT ARRAY DRIVER LF CAST CHASSIS NEO LF CAST CHASSIS FERRITE LF PRESSED CHASSIS NEO LF PRESSED CHASSIS FERRITE

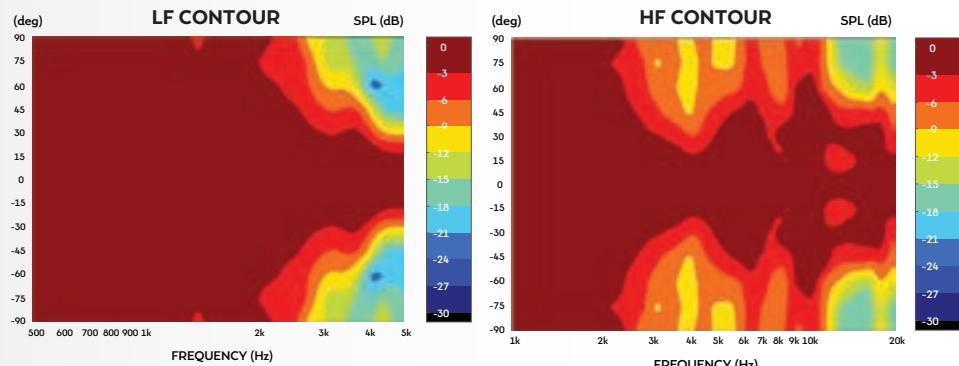
**FTX0617**



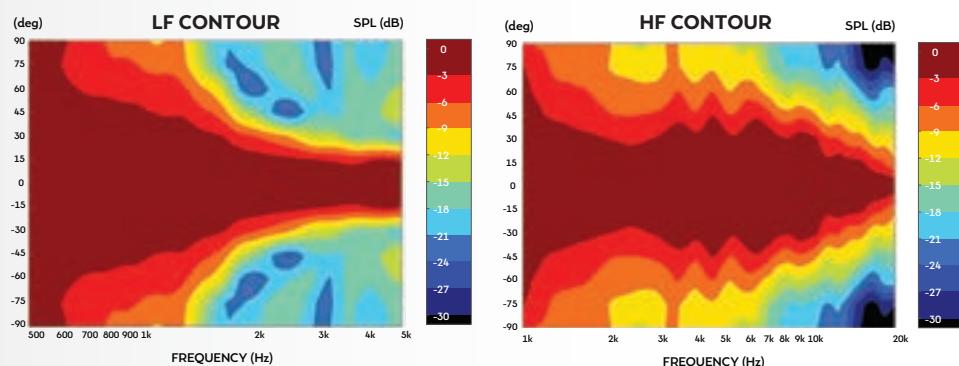
**TFX0615**



**TFX0512**



**TF1225CX**





# COMPACT ARRAY

Compact array drivers

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

\*AES Standard

# AN3510

**3.5-inch neodymium  
magnet compact full  
range driver**



## GENERAL SPECIFICATIONS

Nominal diameter .....	88mm/3.5in
Power rating <sup>1</sup> .....	35Wrms
Continuous power rating <sup>2</sup> .....	70W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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 .....	Aluminium
Surround material .....	Elastomer
Suspension .....	Single
Xmax <sup>4</sup> .....	1.25mm/0.04in
Gap depth .....	4mm/0.16in
Voice coil winding width .....	6.5mm/0.23in

## SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	38.48cm <sup>2</sup> /5.9in <sup>2</sup>
Fs .....	113.4Hz
Mms .....	3.76g/0.13oz
Qms .....	5.093
Qes .....	0.740
Qts .....	0.646
Re .....	5.73Ω
Vas .....	1.87l/0.07ft <sup>3</sup>
Bl .....	4.56Tm
Cms .....	0.52mm/N
Rms .....	0.53kg/s
Le (at 1kHz) .....	0.14mH

## MOUNTING INFORMATION

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

## PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	115mm x 115mm x 70mm 4.5in x 4.5in x 2.8in
Single pack weight .....	250g/0.6lb
Multi pack qty .....	72
Multi pack size (WxDxH) .....	460mm x 635mm x 455mm 18.1in x 25in x 17.9in
Multi pack weight .....	15kg/33lb



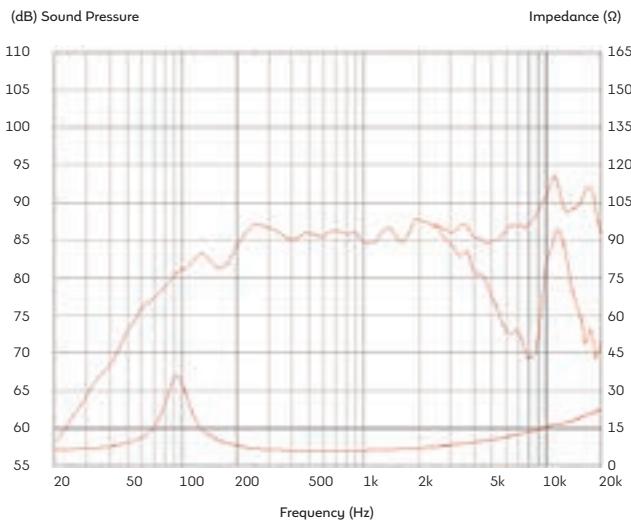
**35Wrms**  
(AES standard)  
power rating

**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



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 2n 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



# AN2775

**2.75-inch neodymium magnet compact full range driver**



**20Wrms**

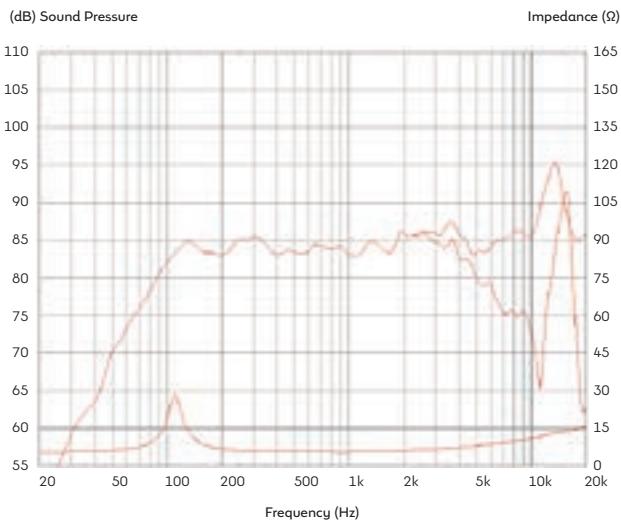
(AES standard)  
power rating

**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

## 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 2n 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 .....	70mm/2.75in
Power rating <sup>1</sup> .....	20Wrms
Continuous power rating <sup>2</sup> .....	40W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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
Xmax <sup>4</sup> .....	1.5mm/0.06in
Gap depth .....	3mm/0.12in
Voice coil winding width .....	6mm/0.24in

## SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	28.27cm <sup>2</sup> /4.38in <sup>2</sup>
Fs .....	123.3Hz
Mms .....	2.68g/0.09oz
Qms .....	5.408
Qes .....	1.166
Qt .....	0.959
Re .....	5.26Ω
Vas .....	3.57l/0.13ft <sup>3</sup>
Bl .....	3.06Tm
Cms .....	0.62mm/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 .....	45mm/1.8in
Cut-out diameter .....	66.1mm/2.6in
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
.....	4.5in x 4.5in x 2.8in
Single pack weight .....	200g/0.4lb
Multi pack qty .....	72
Multi pack size (WxDxH) .....	450mm x 350mm x 380mm
.....	17.6in x 13.8in x 15in
Multi pack weight .....	10kg/22lb

# AN2075

**2-inch neodymium  
magnet compact full  
range driver**



**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

## GENERAL SPECIFICATIONS

Nominal diameter .....	50mm/2in
Power rating <sup>1</sup> .....	20Wrms
Continuous power rating <sup>2</sup> .....	40W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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 <sup>4</sup> .....	1.5mm/0.06in
Gap depth .....	3mm/0.12in
Voice coil winding width .....	6mm/0.24in

## SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	12.56cm <sup>2</sup> /1.95in <sup>2</sup>
Fs .....	153.4Hz
Mms .....	1.49g/0.05oz
Qms .....	5.281
Qes .....	0.998
Qt .....	0.839
Re .....	0.84Ω
Vas .....	1.51l/0.05ft <sup>3</sup>
Bl .....	2.71Tm
Cms .....	0.72mm/N
Rms .....	0.27kg/s
Le (at 1kHz) .....	0.04mH

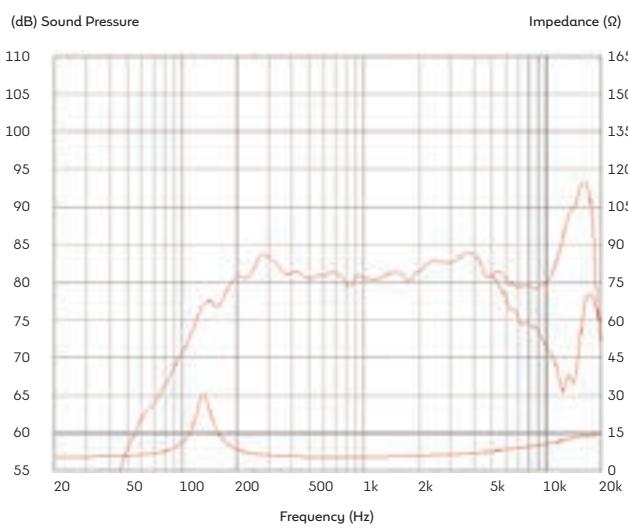
## MOUNTING INFORMATION

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 3.5in x 3.5in x 2.6in
Single pack weight .....	200g/0.4lb
Multi pack qty .....	72
Multi pack size (WxDxH) .....	450mm x 350mm x 380mm 17.6in x 13.8in x 15in
Multi pack weight .....	10kg/22lb

## 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 2n 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.

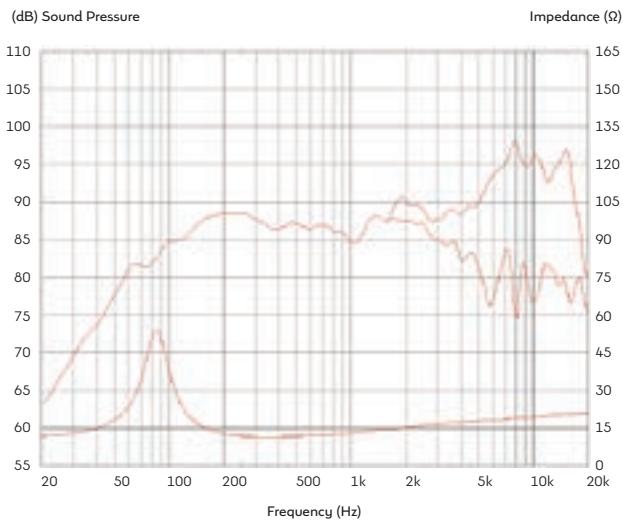
NEW

**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

**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 2n 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 .....	100mm/4in
Power rating <sup>1</sup> .....	35Wrms
Continuous power rating <sup>2</sup> .....	70W
Nominal impedance .....	16Ω
Sensitivity <sup>3</sup> .....	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 <sup>4</sup> .....	1.5mm/0.06in
Gap depth .....	5mm/0.2in
Voice coil winding width .....	8mm/0.31in

**SMALL SIGNAL PARAMETERS<sup>5</sup>**

Sd .....	56.75cm <sup>2</sup> /8.8in <sup>2</sup>
Fs .....	104.7Hz
Mms .....	4.95g/0.17oz
Qms .....	5.306
Qes .....	0.951
Qts .....	0.807
Re .....	10.37Ω
Vas .....	2.131l/0.08ft <sup>3</sup>
Bl .....	5.96Tm
Cms .....	0.47mm/N
Rms .....	0.61kg/s
Le (at 1kHz) .....	0.37mH

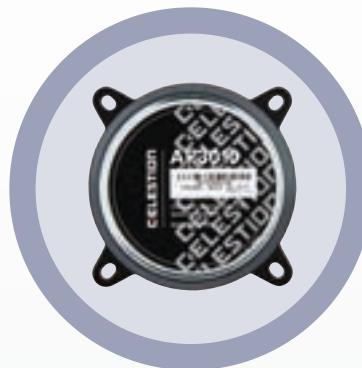
**MOUNTING INFORMATION**

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

NEW

**AF3010****3-inch ferrite magnet  
compact full range  
driver****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

**GENERAL SPECIFICATIONS**

Nominal diameter .....	75mm/3in
Power rating <sup>1</sup> .....	35Wrms
Continuous power rating <sup>2</sup> .....	70W
Nominal impedance .....	.16Ω
Sensitivity <sup>3</sup> .....	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 <sup>4</sup> .....	1.5mm/0.06in
Gap depth .....	5mm/0.2in
Voice coil winding width .....	8mm/0.31in

**SMALL SIGNAL PARAMETERS<sup>5</sup>**

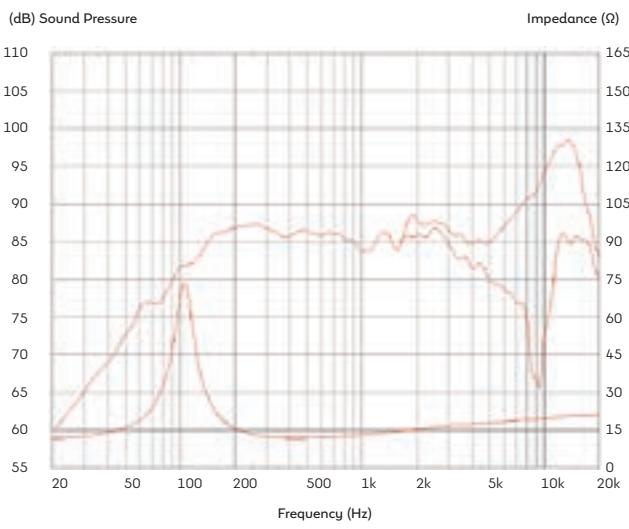
Sd .....	33.18cm <sup>2</sup> /5.14in <sup>2</sup>
Fs .....	128.9Hz
Mms .....	3.55g/0.13oz
Qms .....	6.096
Qes .....	0.843
Qts .....	0.740
Re .....	10.48Ω
Vas .....	0.67l/0.02ft <sup>3</sup>
Bl .....	5.98Tm
Cms .....	0.43mm/N
Rms .....	0.47kg/s
Le (at 1kHz) .....	0.26mH

**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 .....	91.3-93mm/3.59-3.65in
Unit weight .....	680g/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

**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 2n 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.



CELESTION



# LF CAST CHASSIS NEO

**Neodymium magnet  
cast aluminium chassis  
drivers**

	Nominal Diameter	Power Rating*	Impedance	Sensitivity	Frequency Range	Voice Coil Diameter	Unit Weight
<b>CN1845MD</b>	457mm/18in	1700Wrms	8Ω	97dB	30-2,500Hz	115mm/4.5in	10.5kg/23.2lb
<b>CN1025B</b>	254mm/10in	250Wrms	16Ω	99dB	60-5,000Hz	64mm/2.5in	2.96kg/6.5lb
<b>CN0617M</b>	165mm/6.5in	200Wrms	16Ω	99dB	300-7,000Hz	44mm/1.75in	1.1kg/2.4lb
<b>CN0515M</b>	125mm/5in	100Wrms	16Ω	98dB	200-8,000Hz	38mm/1.5in	1.12kg/2.5lb
<b>NTR21-5010JD</b>	530mm/21in	1600Wrms	8Ω	98dB	30-3,000Hz	125mm/5in	12.8kg/28.2lb
<b>NTR15-3018E</b>	381mm/15in	450Wrms	8Ω	98dB	30-3,000Hz	75mm/3in	4.4kg/8.8lb
<b>NTR12-3018D</b>	305mm/12in	350Wrms	8Ω	98dB	50-4,000Hz	75mm/3in	2.6kg/5.7lb
<b>NTR10-2520E</b>	254mm/10in	250Wrms	8Ω	96dB	50-3,000Hz	64mm/2.5in	2.2kg/4.89lb
<b>NTR10-2520D</b>	254mm/10in	250Wrms	8Ω	96dB	55-3,500Hz	64mm/2.5in	2.2kg/4.89lb
<b>NTR08-2011D</b>	203mm/8in	200Wrms	8/16Ω	92dB	70-6,000Hz	50mm/2in	1.52kg/3.34lb
<b>NTR08-2009D</b>	203mm/8in	200Wrms	8/16Ω	94.5dB	70-5,000Hz	50mm/2in	2.8kg/6.16lb
<b>NTR06-17X</b>	165mm/6.5in	150Wrms	8Ω	93.5dB	70-5,000Hz	45mm/1.75in	1.2kg/2.64lb
<b>NTR06-1705D</b>	165mm/6.5in	150Wrms	8/16Ω	90dB	70-7,000Hz	45mm/1.75in	0.95kg/2.09lb
<b>NTR06-1705B</b>	165mm/6.5in	150Wrms	8Ω	95dB	150-7,000Hz	45mm/1.75in	0.85kg/1.87lb

\*AES Standard

NEW

**CN1845MD**

**18-inch cast aluminium chassis, neodymium magnet LF driver**



**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

**GENERAL SPECIFICATIONS**

Nominal diameter .....	457mm/18in
Power rating <sup>1</sup> .....	1750Wrms
Continuous power rating <sup>2</sup> .....	3500W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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 <sup>4</sup> .....	13mm/0.51in
Gap depth .....	12mm/0.49in
Voice coil winding width .....	38mm/1.5in

**SMALL SIGNAL PARAMETERS<sup>5</sup>**

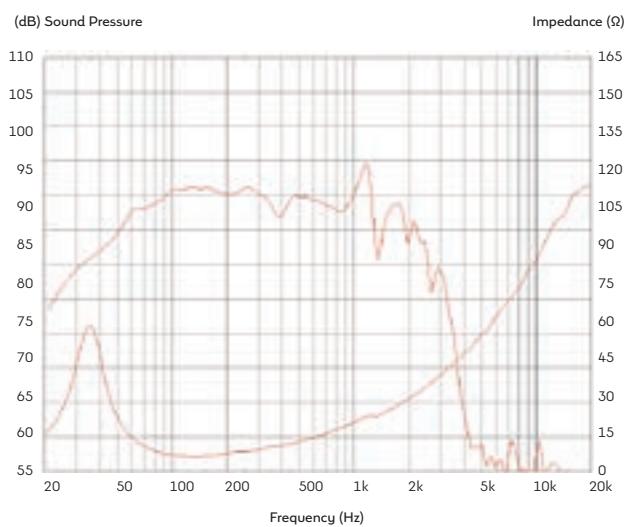
Sd .....	1134.12cm <sup>2</sup> /175.79in <sup>2</sup>
Fs .....	35Hz
Mms .....	230g/8.13oz
Qms .....	3.75
Qes .....	0.307
Qts .....	0.284
Re .....	5.1Ω
Vas .....	163.3l/5.63ft <sup>3</sup>
Bl .....	29Tm
Cms .....	0.9mm/N
Rms .....	13.49kg/s
Le (at 1kHz) .....	2.4mH

**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
Unit weight .....	10.5kg/23.2lb

**PACKED DIMENSIONS & WEIGHT**

Single pack size (WxDxH) .....	500mm x 500mm x 300mm 19.7in x 19.7in x 11.8in
Single pack weight .....	12kg/26.4lb

**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.

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 2n 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

**CN1025B**

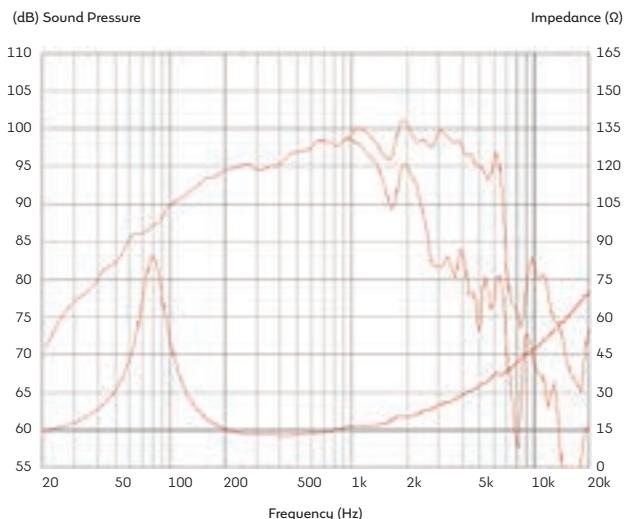
**10-inch cast aluminium chassis, neodymium magnet mid/bass driver**

**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

**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 2n 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 .....	254mm/10in
Power rating <sup>1</sup> .....	250Wrms
Continuous power rating <sup>2</sup> .....	500W
Nominal impedance .....	16Ω
Sensitivity <sup>3</sup> .....	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 <sup>4</sup> .....	2.1mm/0.08in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	12.2mm/0.49in

**SMALL SIGNAL PARAMETERS<sup>5</sup>**

Sd .....	346.36cm <sup>2</sup> /53.69in <sup>2</sup>
Fs .....	79.50Hz
Mms .....	31.45g/1.11oz
Qms .....	3.27
Qes .....	0.409
Qts .....	0.364
Re .....	10.76Ω
Vas .....	21.65l/0.75ft <sup>3</sup>
Bl .....	20.31Tm
Cms .....	0.13mm/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 .....	244.5-247mm/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 38.1in x 42.1in x 33.4in
Multi pack weight .....	257kg/565lb

NEW

**CN0617M**

**6.5-inch cast aluminium chassis, neodymium magnet midrange driver**

**GENERAL SPECIFICATIONS**

Nominal diameter .....	165mm/6.5in
Power rating <sup>1</sup> .....	200Wrms
Continuous power rating <sup>2</sup> .....	400W
Nominal impedance .....	16Ω
Sensitivity <sup>3</sup> .....	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 <sup>4</sup> .....	1.2mm/0.05in
Gap depth .....	6mm/0.24in
Voice coil winding width .....	8.4mm/0.33in

**SMALL SIGNAL PARAMETERS<sup>5</sup>**

Sd .....	153.94cm <sup>2</sup> /23.86in <sup>2</sup>
Fs .....	197.5Hz
Mms .....	10.75g/0.38oz
Qms .....	5.641
Qes .....	0.55
Qt .....	0.501
Re .....	12.85Ω
Vas .....	2.03l/0.07ft <sup>3</sup>
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 PCD .....	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 ..... 13.7in x 13.7in x 7.4in
Multi pack weight .....	10kg/22lb

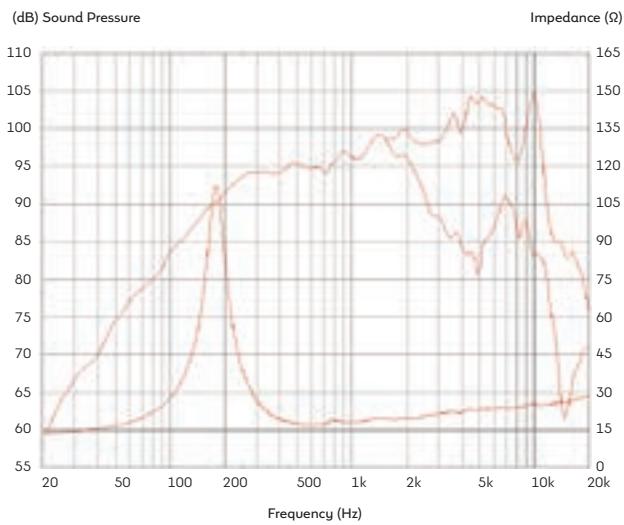


**200Wrms**  
(AES standard)  
power rating

**99dB**  
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 to reduce distortion
- Chassis design allows for fixing of rear cover

**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 2n 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

**CN0515M**

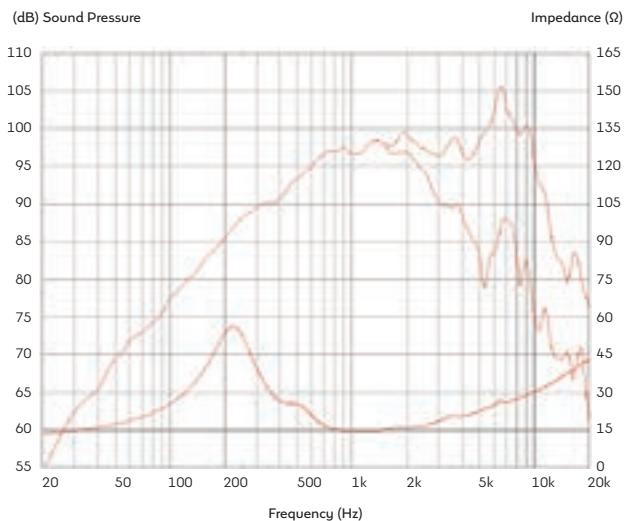
**5-inch cast aluminium chassis, neodymium magnet midrange driver**

**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

**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 2n 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 .....	125mm/5in
Power rating <sup>1</sup> .....	100Wrms
Continuous power rating <sup>2</sup> .....	200W
Nominal impedance .....	16Ω
Sensitivity <sup>3</sup> .....	98dB
Frequency range .....	200-8,000Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Neodymium
Voice coil diameter .....	38mm/1.5in
Voice coil material .....	Copper clad aluminium
Former material .....	Aluminium
Cone material .....	Cellulose
Surround material .....	Cloth sealed
Suspension .....	Single
Xmax <sup>4</sup> .....	1.5mm/0.06in
Gap depth .....	7mm/0.28in
Voice coil winding width .....	10mm/0.39in

**SMALL SIGNAL PARAMETERS<sup>5</sup>**

Sd .....	78.54cm <sup>2</sup> /12.17in <sup>2</sup>
Fs .....	189.2Hz
Mms .....	9.11g/0.32oz
Qms .....	1.534
Qes .....	0.337
Qts .....	0.276
Re .....	11.47Ω
Vas .....	0.68l/0.02ft <sup>3</sup>
Bl .....	19.19Tm
Cms .....	0.08mm/N
Rms .....	7.06kg/s

**MOUNTING INFORMATION**

Overall diameter .....	155mm/6.1in
Overall depth .....	73mm/4.6in
Cut-out diameter .....	116mm/5.9in
Mounting slot dimensions .....	Ø5.2mm/0.2in
Number of mounting slots .....	4
Mounting slot PCD .....	142mm/5.6in
Unit weight .....	1.12kg/2.5lb

**PACKED DIMENSIONS & WEIGHT**

Multi pack qty .....	12
Multi pack size (WxDxH) .....	420mm x 270mm x 190mm 16.5in x 10.6in x 7.5in
Multi pack weight .....	14.5kg/32lb

# NTR21-5010JD

**21-inch cast aluminium chassis, neodymium magnet LF driver**



**1600Wrms**  
(AES standard)  
power rating

**98dB**  
sensitivity

**5-inch**  
inside/outside  
copper voice coil



## GENERAL SPECIFICATIONS

Nominal diameter .....	530mm/21in
Power rating <sup>1</sup> .....	1600Wrms
Continuous power rating <sup>2</sup> .....	3200W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	98dB
Frequency range .....	30-3,000Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Neodymium
Voice coil diameter .....	125mm/5in
Voice coil material .....	Round copper
Former material .....	Glass fibre
Cone material .....	Carbon fibre loaded paper
Surround material .....	Cloth sealed
Suspension .....	Double
Xmax <sup>4</sup> .....	9mm/0.35in
Gap depth .....	12mm/0.47in
Voice coil winding width .....	30mm/1.18in

## SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	1661.9cm <sup>2</sup> /257.59in <sup>2</sup>
Fs .....	32.2Hz
Mms .....	344.1g/12.14oz
Qms .....	5.819
Qes .....	0.339
Qts .....	0.32
Re .....	5.57Ω
Vas .....	276.7l/9.97ft <sup>3</sup>
Bl .....	33.85Tm
Cms .....	0.07mm/N
Rms .....	11.98kg/s
Le (at 1kHz) .....	2.25mH

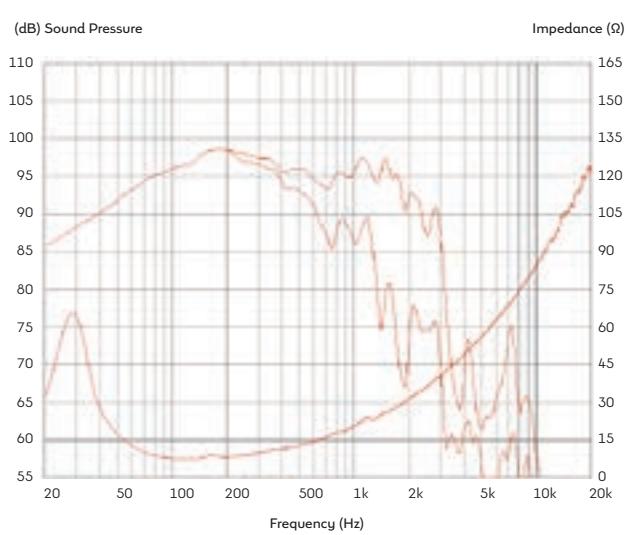
## MOUNTING INFORMATION

Overall diameter .....	550mm/21.65in
Overall depth .....	254mm/10in
Cut-out diameter .....	492mm/19.37in
Mounting slot dimensions .....	12.5mm x 8.5mm/0.49in x 0.33in
Number of mounting slots .....	8
Mounting slot PCD .....	520-528mm/20.5-20.8in
Unit weight .....	12.8kg/28.2lb

## PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	575mm x 575mm x 280mm 22.6in x 22.6in x 11in
Single pack weight .....	13.2kg/29lb

## 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 2n 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.



## NTR15-3018E

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



**350Wrms**

(AES standard)  
power rating

**98dB**

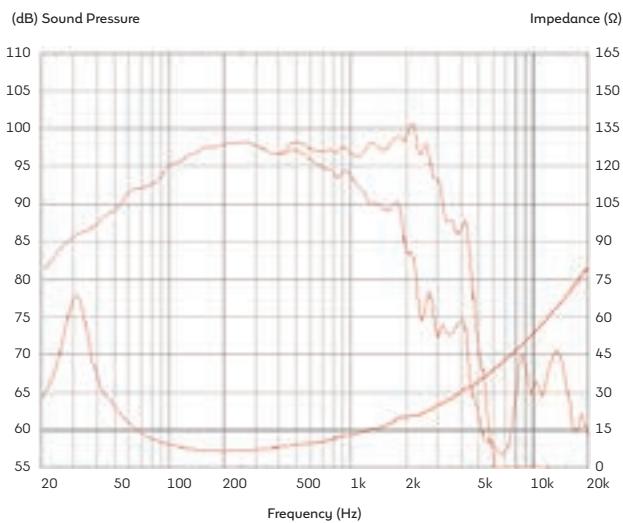
sensitivity

**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

### 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 2n 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 .....	381mm/15in
Power rating <sup>1</sup> .....	450Wrms
Continuous power rating <sup>2</sup> .....	900W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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 <sup>4</sup> .....	5mm/0.2in
Gap depth .....	10mm/0.39in
Voice coil winding width .....	20mm/0.79in

### SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd.....	855.3cm <sup>2</sup> /132.57in <sup>2</sup>
Fs.....	34.9Hz
Mms .....	104.12g/3.67oz
Qms.....	4.863
Qes .....	0.301
Qts.....	0.283
Re.....	5.85Ω
Vas.....	207.27l/7.32ft <sup>3</sup>
Bl .....	21.07Tm
Cms.....	0.2mm/N
Rms.....	4.69kg/s
Le (at 1kHz) .....	1.18mH

### 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 .....	8
Mounting slot PCD .....	367-373mm/14.4-14.7in
Unit weight .....	4kg/8.8lb

### PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	435mm x 435mm x 200mm 17.1in x 17.1in x 7.9in
Single pack weight .....	5kg/11lb
Multi pack qty .....	36
Multi pack size (WxDxH) .....	1200mm x 1000mm x 980mm 47.2in x 39.4in x 38.6in
Multi pack weight .....	166kg/365lb

# NTR12-3018D

**12-inch cast aluminium chassis, neodymium magnet LF driver**



## GENERAL SPECIFICATIONS

Nominal diameter .....	305mm/12in
Power rating <sup>1</sup> .....	350Wrms
Continuous power rating <sup>2</sup> .....	700W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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 <sup>4</sup> .....	4mm/0.16in
Gap depth .....	8mm/0.32in
Voice coil winding width .....	16mm/0.63in

## SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
Fs .....	58.8Hz
Mms .....	58.08g/2.05oz
Qms .....	3.391
Qes .....	0.325
Qts .....	0.296
Re .....	5.99Ω
Vas .....	50.39/l.78ft <sup>3</sup>
Bl .....	19.9Tm
Cms .....	0.13mm/N
Rms .....	6.32kg/s
Le (at 1kHz) .....	0.8mH

## MOUNTING INFORMATION

Overall diameter .....	318mm/12.5in
Overall depth .....	137mm/5.39in
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 .....	298-304mm/11.7-12in
Unit weight .....	2.6kg/5.7lb

## PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	350mm x 350mm x 185mm 13.8in x 13.8in x 7.3in
Single pack weight .....	3kg/6.6lb
Multi pack qty .....	60
Multi pack size (WxDxH) .....	1080mm x 980mm x 880mm 42.5in x 38.6in x 34.6in
Multi pack weight .....	178kg/392lb



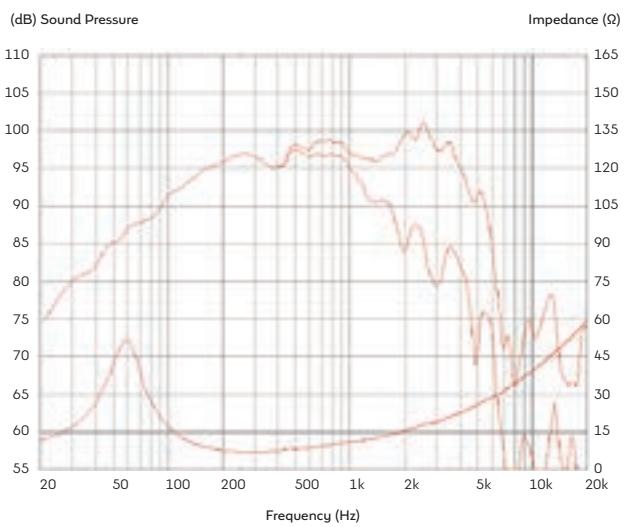
**450Wrms**  
(AES standard)  
power rating

**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



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 2n 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.



## NTR10-2520E

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



**250Wrms**

(AES standard)  
power rating

**96dB**

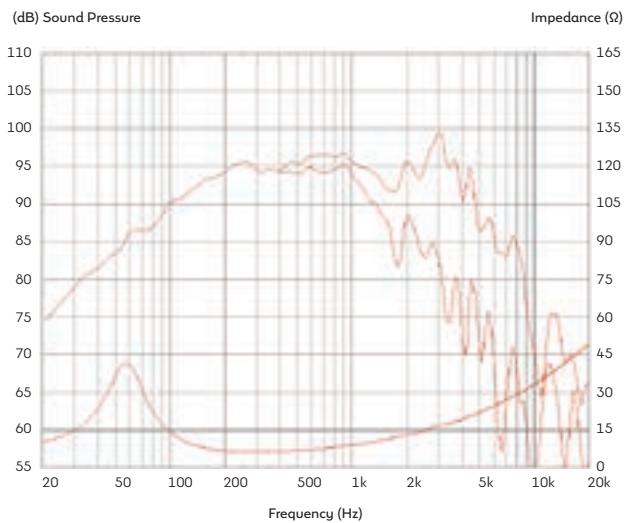
sensitivity

**2.5-inch**

inside/outside  
copper voice coil

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

### 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 2n 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 .....	254mm/10in
Power rating <sup>1</sup> .....	250Wrms
Continuous power rating <sup>2</sup> .....	500W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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 <sup>4</sup> .....	4.75mm/0.19in
Gap depth .....	8mm/0.32in
Voice coil winding width .....	17.5mm/0.69in

### SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd.....	346.36cm <sup>2</sup> /53.69in <sup>2</sup>
Fs.....	55.8Hz
Mms .....	46g/1.62oz
Qms .....	3.244
Qes .....	0.345
Qts .....	0.312
Re .....	5.44Ω
Vas .....	30.07l/1.06ft <sup>3</sup>
Bl .....	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 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 12in x 12in x 5.9in
Single pack weight .....	2.5kg/5.5lb
Multi pack qty .....	96
Multi pack size (WxDxH) .....	1080mm x 880mm x 840mm 42.5in x 34.6in x 33.1in
Multi pack weight .....	235kg/518lb

## NTR10-2520D

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



### GENERAL SPECIFICATIONS

Nominal diameter .....	254mm/10in
Power rating <sup>1</sup> .....	250Wrms
Continuous power rating <sup>2</sup> .....	500W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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 <sup>4</sup> .....	4mm/0.16in
Gap depth .....	8mm/0.32in
Voice coil winding width .....	16mm/0.63in

### SMALL SIGNAL PARAMETERS<sup>5</sup>

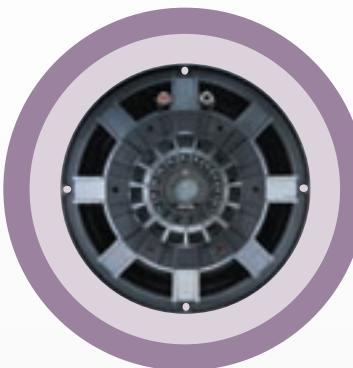
Sd .....	346.36cm <sup>2</sup> /53.69in <sup>2</sup>
Fs .....	57.2Hz
Mms .....	37.93g/1.34oz
Qms .....	2.824
Qes .....	0.322
Qts .....	0.289
Re .....	5.92Ω
Vas .....	34.69l/1.23ft <sup>3</sup>
Bl .....	15.83Tm
Cms .....	0.2mm/N
Rms .....	4.82kg/s
Le (at 1kHz) .....	0.49mH

### 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 12in x 12in x 5.9in
Single pack weight .....	2.5kg/5.5lb
Multi pack qty .....	96
Multi pack size (WxDxH) .....	1080mm x 880mm x 840mm 42.5in x 34.6in x 33.1in
Multi pack weight .....	235kg/518lb



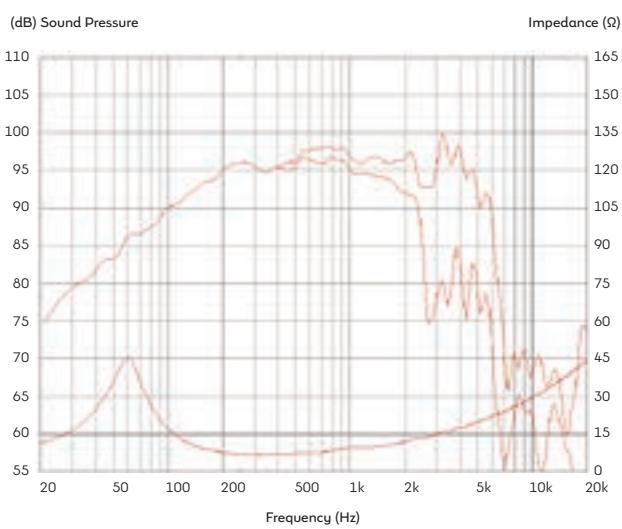
**250Wrms**  
(AES standard)  
power rating

**96dB**  
sensitivity

**2.5-inch**  
copper clad  
aluminium 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.  
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 2n anechoic environment.

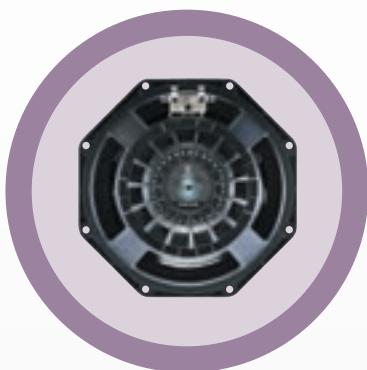
4. Xmax derived from: (voice coil winding width-gap depth)/2.

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



## NTR08-2011D

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



**200Wrms**

(AES standard)  
power rating

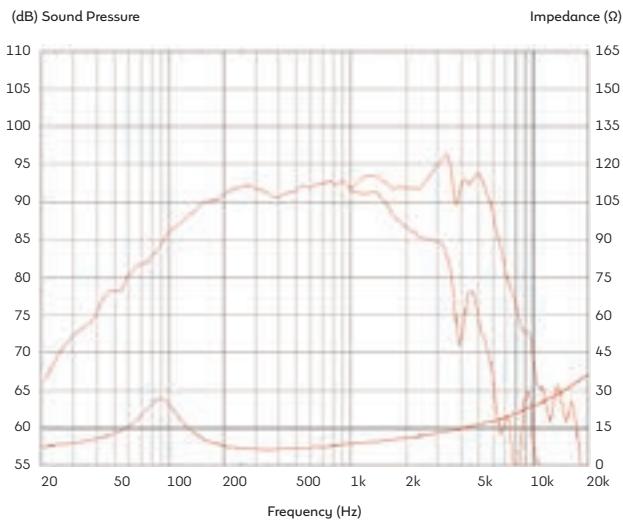
**92dB**

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 Bl and reduced distortion

### 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 2n 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

### GENERAL SPECIFICATIONS

Nominal diameter .....	203mm/8in
Power rating <sup>1</sup> .....	200Wrms
Continuous power rating <sup>2</sup> .....	400W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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 <sup>4</sup> .....	4mm/0.16in
Gap depth .....	8mm/0.32in
Voice coil winding width .....	16mm/0.63in

### SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	226.98cm <sup>2</sup> /35.18in <sup>2</sup>
Fs .....	84.8Hz
Mms .....	24.91g/23.99oz
Qms .....	2.34
Qes .....	0.535
Qt .....	0.436
Re .....	5.79Ω
Vas .....	10.31l/0.37ft <sup>3</sup>
Bl .....	11.98Tm
Cms .....	0.14mm/N
Rms .....	5.66kg/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/3.44lb

### PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	235mm x 235mm x 140mm 9.2in x 9.2in x 5.5in
Single pack weight .....	1.75kg/3.85lb
Multi pack qty .....	8
Multi pack size (WxDxH) .....	450mm x 380mm x 260mm 17.7in x 15in x 10.2in
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 rating <sup>1</sup> .....	200Wrms
Continuous power rating <sup>2</sup> .....	400W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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 <sup>4</sup> .....	4mm/0.16in
Gap depth .....	10mm/0.39in
Voice coil winding width .....	18mm/0.67in

### SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	226.98cm <sup>2</sup> /35.18in <sup>2</sup>
Fs .....	71.4Hz
Mms .....	31.06g/1.1oz
Qms .....	2.035
Qes .....	0.236
Qts .....	0.211
Re .....	5.5Ω
Vas .....	11.65l/0.41ft <sup>3</sup>
Bl .....	18.03Tm
Cms .....	0.16mm/N
Rms .....	6.85kg/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 .....	.06.5mm/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



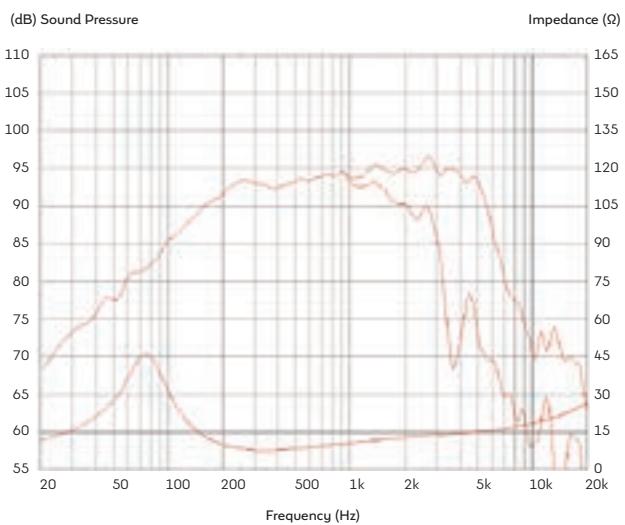
**200Wrms**  
(AES standard)  
power rating

**94.5dB**  
sensitivity

**2-inch**  
edgewound copper  
voice coil

- Coated Kevlar-loaded cone for enhanced weather resistance
- Vented magnet assembly for more efficient cooling

### 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 2n 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



## NTR06-17X

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



**150Wrms**

(AES standard)  
power rating

**93.5dB**

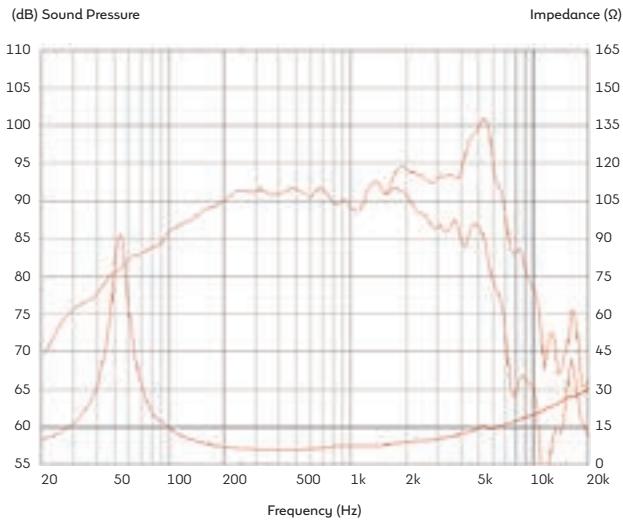
sensitivity

**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

### 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 2n 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 .....	165mm/6.5in
Power rating <sup>1</sup> .....	150Wrms
Continuous power rating <sup>2</sup> .....	300W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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 <sup>4</sup> .....	3mm/0.12in
Gap depth .....	6mm/0.24in
Voice coil winding width .....	12mm/0.47in

### SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	153.94cm <sup>2</sup> /23.86in <sup>2</sup>
Fs .....	60.4Hz
Mms .....	17.68g/0.62oz
Qms .....	7.247
Qes .....	0.335
Qts .....	0.321
Re .....	5.36Ω
Vas .....	13.19l/0.47ft <sup>3</sup>
Bl .....	10.36Tm
Cms .....	0.39mm/N
Rms .....	0.93kg/s
Le (at 1kHz) .....	0.28mH

### MOUNTING INFORMATION

Overall diameter .....	189mm/7.44in (max)
Overall depth .....	73mm/2.87in
Cut-out diameter .....	145mm/5.7in
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 13.7in x 13.7in x 7.4in
Multi pack weight .....	11kg/25lb

# NTR06-1705D

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



## GENERAL SPECIFICATIONS

Nominal diameter .....	165mm/6.5in
Power rating <sup>1</sup> .....	150Wrms
Continuous power rating <sup>2</sup> .....	300W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	90dB
Frequency range .....	70-7,000Hz
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
Surround material .....	Elastomer
Suspension .....	Single
Xmax <sup>4</sup> .....	4.5mm/0.18in
Gap depth .....	6mm/0.24in
Voice coil winding width .....	15mm/0.63in

## SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	153.94cm <sup>2</sup> /23.86in <sup>2</sup>
Fs .....	49Hz
Mms .....	16.58g/0.58oz
Qms .....	6.123
Qes .....	0.403
Qts .....	0.378
Re .....	5.27Ω
Vas .....	21.42l/0.76ft <sup>3</sup>
Bl .....	8.17Tm
Cms .....	0.64mm/N
Rms .....	0.83kg/s
Le (at 1kHz) .....	0.23mH

## MOUNTING INFORMATION

Overall diameter .....	189mm/7.44in (max)
Overall depth .....	87mm/3.43in
Cut-out diameter .....	150mm/5.9in
Mounting slot dimensions ..	6.5mm x 5.5mm/0.26in x 0.22in
Number of mounting slots .....	4
Mounting slot PCD .....	173.5mm/6.83in
Unit weight .....	0.95kg/2.09lb

## PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	190mm x 190mm x 110mm 7.5in x 7.5in x 4.3in
Single pack weight .....	1.1kg/2.4lb
Multi pack qty .....	120
Multi pack size (WxDxH) .....	1070mm x 850mm x 860mm 42.1in x 33.5in x 33.9in
Multi pack weight .....	140kg/308lb



**150Wrms**

(AES standard)  
power rating

**90dB**

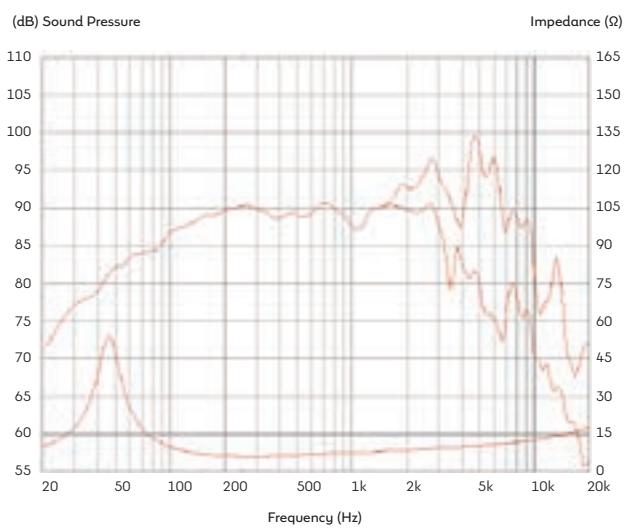
sensitivity

**1.75-inch**

copper clad  
aluminium voice coil

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

## 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 2n 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



## NTR06-1705B

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



**150Wrms**

(AES standard)  
power rating

**95dB**

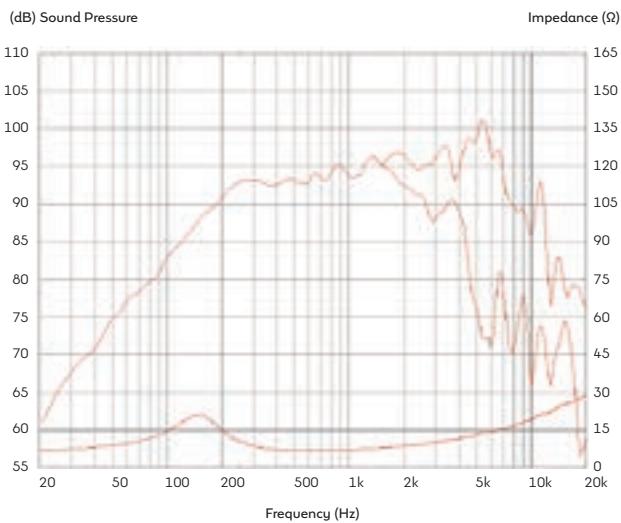
sensitivity

**1.75-inch**

copper clad  
aluminium voice coil

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

### 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 1W, 1m in 2n 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.

### GENERAL SPECIFICATIONS

Nominal diameter .....	165mm/6.5in
Power rating <sup>1</sup> .....	150Wrms
Continuous power rating <sup>2</sup> .....	300W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	95dB
Frequency range .....	1500-7,000Hz
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
Surround material .....	Cloth sealed
Suspension .....	Single
Xmax <sup>4</sup> .....	2.5mm/0.098in
Gap depth .....	6mm/0.24in
Voice coil winding width .....	11mm/0.43in

### SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	153.94cm <sup>2</sup> /23.86in <sup>2</sup>
Fs .....	132.9Hz
Mms .....	13.26g/0.47oz
Qms .....	1.912
Qes .....	0.576
Qts .....	0.442
Re .....	5.94Ω
Vas .....	3.63l/0.13ft <sup>3</sup>
Bl .....	10.69Tm
Cms .....	0.11mm/N
Rms .....	5.79kg/s
Le (at 1kHz) .....	0.21mH

### MOUNTING INFORMATION

Overall diameter .....	189mm/7.44in (max)
Overall depth .....	71mm/2.79in
Cut-out diameter .....	150mm/5.9in
Mounting slot dimensions ..	6.5mm x 5.5mm/0.26in x 0.22in
Number of mounting slots .....	4
Mounting slot PCD .....	173.5mm/6.83in
Unit weight .....	0.85kg/1.87lb

### PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	190mm x 190mm x 110mm 7.5in x 7.5in x 4.3in
Single pack weight .....	1kg/2.2lb
Multi pack qty .....	140
Multi pack size (WxDxH) .....	800mm x 840mm x 74mm 31.4in x 33in x 29.1in
Multi pack weight .....	17kg/37.4lb



# LF CAST CHASSIS FERRITE

Ferrite magnet cast  
aluminium chassis  
drivers

	Nominal Diameter	Power Rating*	Impedance	Sensitivity	Frequency Range	Voice Coil Diameter	Unit Weight
<b>CF18VJD</b>	460mm/18in	1600Wrms	4/8Ω	97dB	25-1,500Hz	125mm/5in	23kg/50.6lb
<b>CF1840JD</b>	457mm/18in	1200Wrms	4/8Ω	95dB	30-2,500Hz	100mm/4in	11.6kg/25.5lb
<b>CF1840H</b>	457mm/18in	1000Wrms	4Ω	97dB	30-2,500Hz	100mm/4in	11.6kg/25.5lb
<b>CF1540HD</b>	381mm/15in	1200Wrms	8Ω	97dB	35-2,000Hz	100mm/4in	11.2kg/24.6lb
<b>CF1230F</b>	305mm/12in	500Wrms	8Ω	98dB	50-3,000Hz	75mm/3in	6.75kg/14.9lb
<b>CF1025C</b>	254mm/10in	300Wrms	8Ω	99dB	60-5,000Hz	64mm/2.5in	4.9kg/10.8lb
<b>CF0820BMB</b>	200mm/8in	250Wrms	8Ω	93dB	50-6,000Hz	50mm/2in	3.1kg/6.8lb
<b>CF0820M</b>	200mm/8in	250Wrms	8Ω	98dB	150-6,000Hz	50mm/2in	3.4kg/7.5lb
<b>CF0617M</b>	165mm/6.5in	200Wrms	8Ω	96dB	300-7,000Hz	45mm/1.75in	1.9kg/4.2lb
<b>FTR18-4080HDX</b>	457mm/18in	1000Wrms	8Ω	95dB	30-2,500Hz	100mm/4in	9.8kg/21.6lb
<b>FTR18-4080FD</b>	457mm/18in	1000Wrms	8Ω	97dB	30-2,500Hz	100mm/4in	9.8kg/21.6lb
<b>FTR18-4080F</b>	457mm/18in	600Wrms	8Ω	97dB	30-3,000Hz	100mm/4in	9.7kg/21.4lb
<b>FTR15-4080HDX</b>	381mm/15in	1000Wrms	4/8Ω	96dB	40-2,500Hz	100mm/4in	9.7kg/21.3lb
<b>FTR15-4080FD</b>	381mm/15in	1000Wrms	8Ω	97dB	35-2,500Hz	100mm/4in	9.5kg/20.9lb
<b>FTR15-4080F</b>	381mm/15in	600Wrms	8Ω	97dB	35-3,000Hz	100mm/4in	9.4kg/20.7lb
<b>FTR15-3070E</b>	381mm/15in	400Wrms	4/8Ω	97dB	40-4,000Hz	75mm/3in	6.4kg/14.1lb
<b>FTR15-3070C</b>	381mm/15in	400Wrms	8Ω	99dB	40-4,000Hz	75mm/3in	6.3kg/13.8lb
<b>FTR12-4080HDX</b>	305mm/12in	1000Wrms	8Ω	93dB	47-3,000Hz	100mm/4in	9.6kg/21.1lb
<b>FTR12-4080DL</b>	305mm/12in	700Wrms	8Ω	88dB	20-300Hz	100mm/4in	10.2kg/22.4lb
<b>FTR12-3070C</b>	305mm/12in	350Wrms	8Ω	96dB	40-4,000Hz	75mm/3in	6.3kg/13.9lb
<b>FTR12-2565D</b>	305mm/12in	250Wrms	8Ω	95dB	55-4,000Hz	64mm/2.5in	4.5kg/9.9lb
<b>FTR10-2055D</b>	254mm/10in	200Wrms	8Ω	93.5dB	60-4,000Hz	50mm/2in	4kg/8.8lb
<b>FTR08-2011D</b>	200mm/8in	200Wrms	8Ω	93dB	70-6,000Hz	50mm/2in	3.65kg/8.0lb

\*AES Standard

# CF18VJD

**18-inch, cast aluminium chassis, ferrite magnet Subwoofer**



## GENERAL SPECIFICATIONS

Nominal diameter .....	460mm/18in
Power rating <sup>1</sup> .....	1600Wrms
Continuous power rating <sup>2</sup> .....	3200W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	97dB
Frequency range .....	25-1,500Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	4.93kg/174oz
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
Xmax <sup>4</sup> .....	9mm/0.35in
Gap depth .....	12mm/0.47in
Voice coil winding width .....	30mm/1.18in

## SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	1134.12cm <sup>2</sup> /175.79in <sup>2</sup>
Fs .....	34.5Hz
Mms .....	265.42g/9.36oz
Qms .....	4.573
Qes .....	0.33
Qts .....	0.31
Re .....	6.13Ω
Vas .....	145.81/5.15ft <sup>3</sup>
Bl .....	32.59Tm
Cms .....	0.08mm/N
Rms .....	12.59kg/s
Le (at 1kHz) .....	1.87mH

## 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 19.7in x 19.7in x 7.11in
Single pack weight .....	24kg/52.8lb



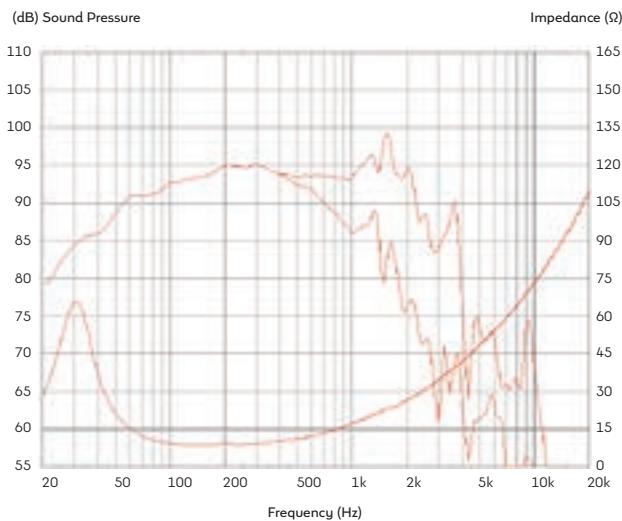
**1600Wrms**  
(AES standard)  
power rating

**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

## 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 2n 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 4Ω, data available on request



## CF1840JD

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



**1200Wrms**

(AES standard)  
power rating

**95dB**

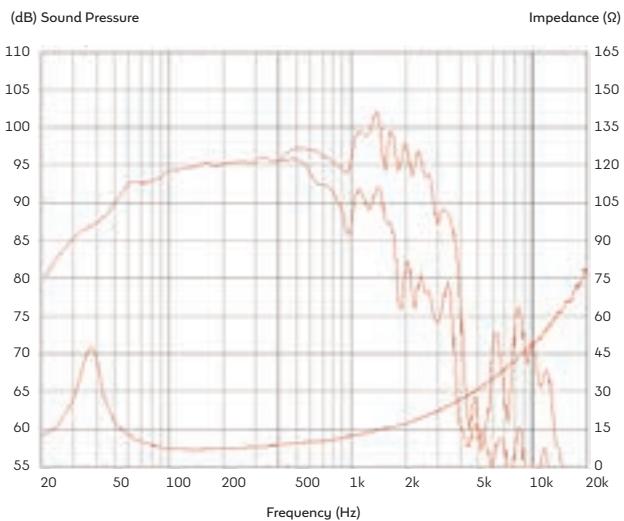
sensitivity

**4-inch**

inside/outside  
voice coil

- Balanced airflow venting provides enhanced cooling
- Twin demodulation rings
- 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.  
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 2n 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 4Ω, data available on request

### GENERAL SPECIFICATIONS

Nominal diameter .....	457mm/18in
Power rating <sup>1</sup> .....	1200Wrms
Continuous power rating <sup>2</sup> .....	2400W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	95dB
Frequency range .....	30-2,500Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	3.18kg/11oz
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 <sup>4</sup> .....	10mm/0.39in
Gap depth .....	10mm/0.39in
Voice coil winding width .....	30mm/1.18in

### SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd.....	1134.12cm <sup>2</sup> /175.79in <sup>2</sup>
Fs.....	37Hz
Mms.....	217.4g/7.67oz
Qms.....	4.372
Qes.....	0.44
Qts.....	0.4
Re.....	5.29Ω
Vas.....	155l/5.47ft <sup>3</sup>
Bl.....	24.76Tm
Cms.....	0.09mm/N
Rms.....	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
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 19.7in x 19.7in x 7.11in
Single pack weight .....	13kg/28.6lb
Multi pack qty .....	24
Multi pack size (WxDxH) .....	1210mm x 1050mm x 1070mm 47.6in x 41.3in x 42.1in
Multi pack weight .....	305kg/670lb

# CF1840H

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



## GENERAL SPECIFICATIONS

Nominal diameter .....	457mm/18in
Power rating <sup>1</sup> .....	1000Wrms
Continuous power rating <sup>2</sup> .....	2000W
Nominal impedance .....	4Ω
Sensitivity <sup>3</sup> .....	97dB
Frequency range .....	30-2,500Hz
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 .....	Carbon fibre loaded paper
Surround material .....	Cloth sealed
Suspension .....	Single
Xmax <sup>4</sup> .....	8mm/0.31in
Gap depth .....	9.5mm/0.37in
Voice coil winding width .....	25mm/0.99in

## SMALL SIGNAL PARAMETERS<sup>5</sup>

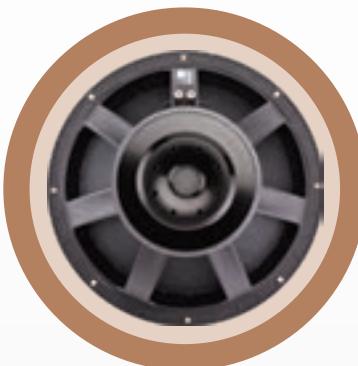
Sd .....	1134.12cm <sup>2</sup> /175.79in <sup>2</sup>
Fs .....	38.5Hz
Mms .....	158.7g/5.6oz
Qms .....	3.921
Qes .....	0.385
Qts .....	0.351
Re .....	3.04Ω
Vas .....	196.7l/6.95ft <sup>3</sup>
Bl .....	17.41Tm
Cms .....	0.11mm/N
Rms .....	9.76kg/s
Le (at 1kHz) .....	0.95mH

## 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 19.7in x 19.7in x 7.11in
Single pack weight .....	13kg/28.6lb



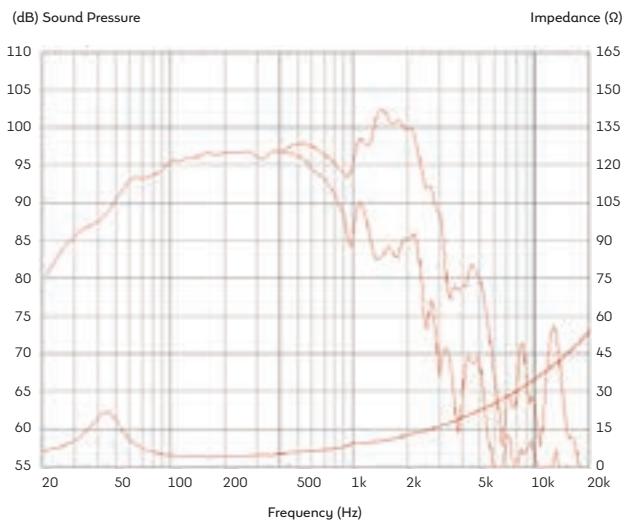
**1000Wrms**  
(AES standard)  
power rating

**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

## 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 2n 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**

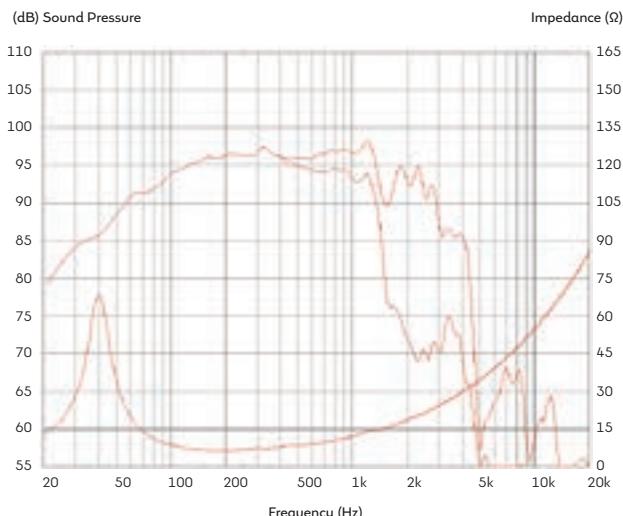
**15-inch, cast aluminium chassis, ferrite magnet LF driver**

**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**

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 2n 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 .....	381mm/15in
Power rating <sup>1</sup> .....	1200Wrms
Continuous power rating <sup>2</sup> .....	2400W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	97dB
Frequency range .....	35-2,000Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	3.18kg/11.2oz
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 <sup>4</sup> .....	8mm/0.33in
Gap depth .....	9.5mm/0.37in
Voice coil winding width .....	25mm/0.98in

**SMALL SIGNAL PARAMETERS<sup>5</sup>**

Sd .....	855.3cm <sup>2</sup> /132.57in <sup>2</sup>
Fs .....	40.8Hz
Mms .....	145.53g/5.13oz
Qms .....	5.591
Qes .....	0.323
Qts .....	0.305
Re .....	5.15Ω
Vas .....	108.3l/3.82ft <sup>3</sup>
Bl .....	24.4Tm
Cms .....	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 47.6in x 41.3in x 35.4in
Multi pack weight .....	300kg/660lb

**NEW****CF1230F**

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

**GENERAL SPECIFICATIONS**

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

**SMALL SIGNAL PARAMETERS<sup>5</sup>**

Sd .....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
Fs .....	56.5Hz
Mms .....	63.75g/2.25oz
Qms .....	4.33
Qes .....	0.34
Qts .....	0.32
Re .....	5.08Ω
Vas .....	49.61l/1.75ft <sup>3</sup>
Bl .....	18.33Tm
Cms .....	0.12mm/N
Rms .....	5.23kg/s
Le (at 1kHz) .....	0.74mH

**MOUNTING INFORMATION**

Overall diameter .....	315mm/12.4in
Overall depth .....	153mm/6.02in
Cut-out diameter .....	282mm/11.1in
Mounting slot dimensions ..	10mm x 6.5mm/0.39in x 0.26in
Number of mounting slots .....	8
Mounting PCD .....	294-300mm/11.6-11.8in
Unit weight .....	6.75kg/14.9lb

**PACKED DIMENSIONS & WEIGHT**

Multi pack qty .....	60
Multi pack size (WxDxH) .....	1210mm x 1050mm x 980mm 47.6in x 41.3in x 35.4in
Multi pack weight .....	435kg/870lb

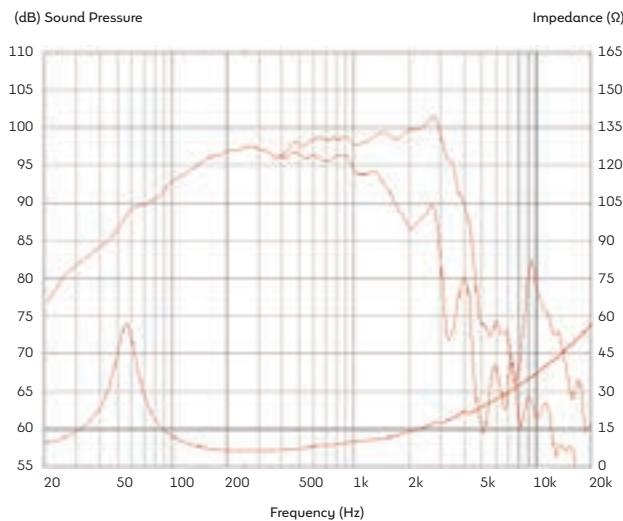


**500Wrms**  
(AES standard)  
power rating

**98dB**  
sensitivity

**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**

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 2n anechoic environment.

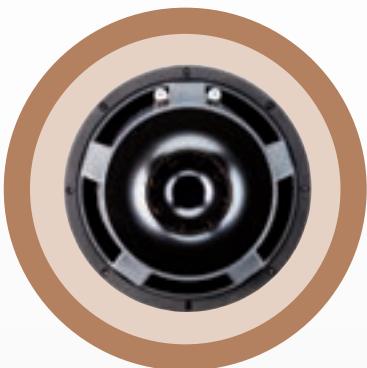
4. Xmax derived from: (voice coil winding width-gap depth)/2.

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



## CF1025C

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



**300Wrms**

(AES standard)  
power rating

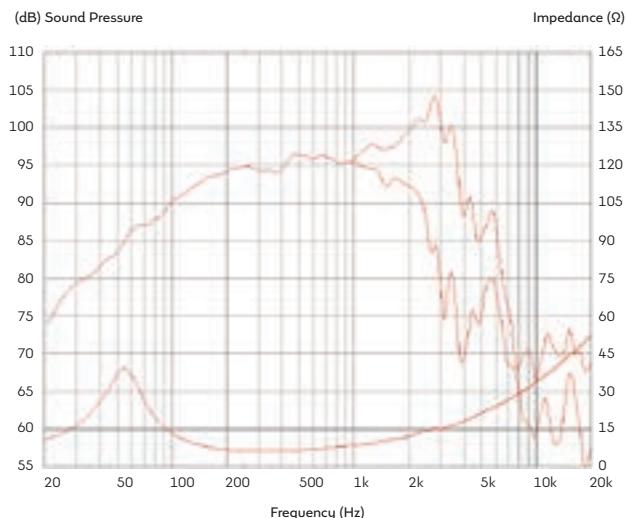
**99dB**

sensitivity

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

- Balanced airflow venting provides enhanced cooling
- Twin demodulation rings

### FREQUENCY RESPONSE AND IMPEDANCE CURVES



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 2n 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 .....	254mm/10in
Power rating <sup>1</sup> .....	300Wrms
Continuous power rating <sup>2</sup> .....	600W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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
Xmax <sup>4</sup> .....	2.5mm/0.1in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	12.5mm/0.49in

### SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	346.36cm <sup>2</sup> /53.69in <sup>2</sup>
Fs .....	54.8Hz
Mms .....	37.03g/1.31oz
Qms .....	2.338
Qes .....	0.299
Qts .....	0.265
Re .....	5.15Ω
Vas .....	38.63l/1.36ft <sup>3</sup>
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/9.1in
Mounting slot dimensions .....	8mm x 6.5mm/0.3in 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) .....	306mm x 306mm x 155mm 12in x 12in x 6.1in
Single pack weight .....	5.5kg/12.1lb
Multi pack qty .....	8
Multi pack size (WxDxH) .....	555mm x 520mm x 290mm 21.9in x 20.5in x 11.4in
Multi pack weight .....	45kg/99lb

# CF0820BMB

**8-inch, cast aluminium chassis, ferrite magnet bass and mid/bass driver**



## GENERAL SPECIFICATIONS

Nominal diameter .....	200mm/8in
Power rating <sup>1</sup> .....	250Wrms
Continuous power rating <sup>2</sup> .....	500W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	93dB
Frequency range .....	50-6,000Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	0.99kg/34.8oz
Voice coil diameter .....	50mm/2in
Voice coil material .....	Copper clad aluminium
Former material .....	Glass fibre
Cone material .....	Treated paper
Surround material .....	Elastomer
Suspension .....	Single
Xmax <sup>4</sup> .....	5.25mm/0.21in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	18.5mm/0.73in

## SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	226.98cm <sup>2</sup> /35.18in <sup>2</sup>
Fs .....	50.5Hz
Mms .....	32.35g/1.14oz
Qms .....	5.095
Qes .....	0.394
Qts .....	0.366
Re .....	5.45Ω
Vas .....	22.42l/0.79ft <sup>3</sup>
Bl .....	11.92Tm
Cms .....	0.31mm/N
Rms .....	2.01kg/s
Le (at 1kHz) .....	0.78mH

## MOUNTING INFORMATION

Overall diameter .....	215mm/8.5in
Overall depth .....	108mm/4.3in
Cut-out diameter .....	187mm/7.4in
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



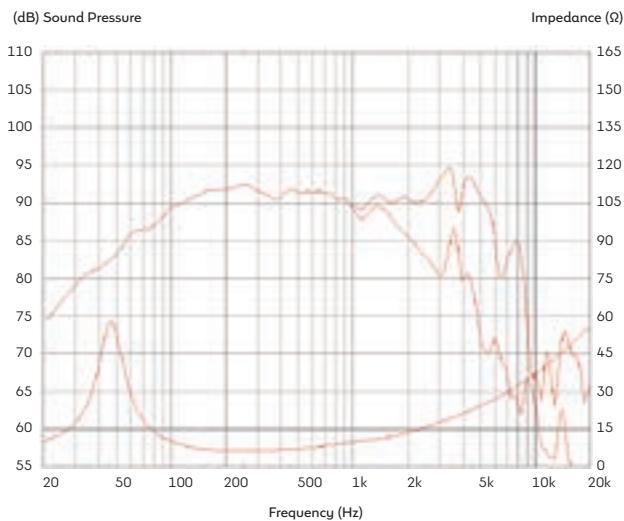
**250Wrms**  
(AES standard)  
power rating

**95dB**  
sensitivity

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

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

## FREQUENCY RESPONSE AND IMPEDANCE CURVES



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 2n 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.



## CF0820M

**8-inch, cast aluminium chassis, ferrite magnet midrange driver**



**250Wrms**

(AES standard)  
power rating

**98dB**

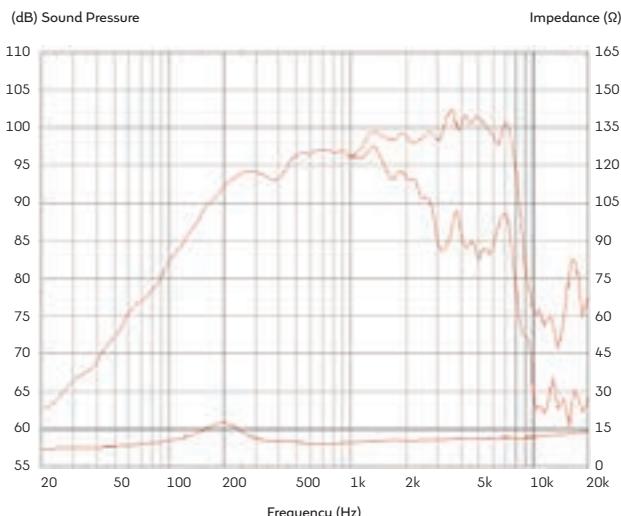
sensitivity

**2-inch**

copper clad  
aluminium voice coil

- Dedicated midrange driver
- Copper sleeved pole reduces HF inductive rise
- Narrow edged chassis for close packing
- Airflow vented for dynamic heat dispersion

### 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 2n 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 .....	200mm/8in
Power rating <sup>1</sup> .....	250Wrms
Continuous power rating <sup>2</sup> .....	500W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	98dB
Frequency range .....	150-6,000Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	1.3kg/45oz
Voice coil diameter .....	50mm/2in
Voice coil material .....	Copper clad aluminium
Former material .....	Glass fibre
Cone material .....	Treated paper
Surround material .....	Cloth sealed
Suspension .....	Single
Xmax <sup>4</sup> .....	1.5mm/0.06in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	11mm/0.43in

### SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	226.98cm <sup>2</sup> /35.18in <sup>2</sup>
Fs .....	202Hz
Mms .....	21.38g/0.75oz
Qms .....	1.784
Qes .....	0.831
Qts .....	0.567
Re .....	5.39Ω
Vas .....	2.12l/0.07ft <sup>3</sup>
Bl .....	13.27Tm
Cms .....	0.03mm/N
Rms .....	15.21kg/s
Le (at 1kHz) .....	0.12mH

### MOUNTING INFORMATION

Overall diameter .....	215mm/8.5in
Overall depth .....	113mm/4.45in
Cut-out diameter .....	187mm/7.4in
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 .....	8
Multi pack size (WxDxH) .....	465mm x 455mm x 250mm 18.3in x 17.9in x 9.8in
Multi pack weight .....	27.5kg/60lb

# CF0617M

**6.5-inch, cast aluminium chassis, ferrite magnet midrange driver**



## GENERAL SPECIFICATIONS

Nominal diameter .....	165mm/6.5in
Power rating <sup>1</sup> .....	200Wrms
Continuous power rating <sup>2</sup> .....	400W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	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 <sup>4</sup> .....	1.2mm/0.05in
Gap depth .....	6mm/0.24in
Voice coil winding width .....	8.4mm/0.33in

## SMALL SIGNAL PARAMETERS<sup>5</sup>

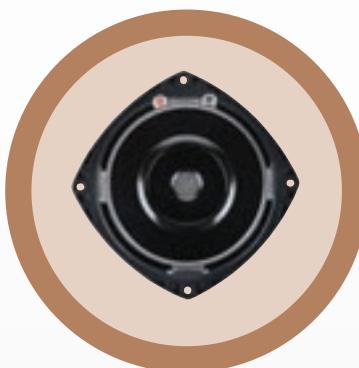
Sd .....	153.94cm <sup>2</sup> /23.86in <sup>2</sup>
Fs .....	116.6Hz
Mms .....	11.59g/0.41oz
Qms .....	6.93
Qes .....	0.48
Qts .....	0.45
Re .....	5.3Ω
Vas .....	5.39l/0.19ft <sup>3</sup>
Bl .....	9.68Tm
Cms .....	0.16mm/N
Rms .....	1.23kg/s
Le (at 1kHz) .....	1.73mH

## MOUNTING INFORMATION

Overall diameter .....	189mm/7.44in (max)
Overall depth .....	78.5mm/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 7.5in x 7.5in x 4.3in
Single pack weight .....	2.5kg/5.5lb
Multi pack qty .....	8
Multi pack size (WxDxH) .....	345mm x 345mm x 190mm 13.6in x 12.4in x 7.5in
Multi pack weight .....	20kg/44lb



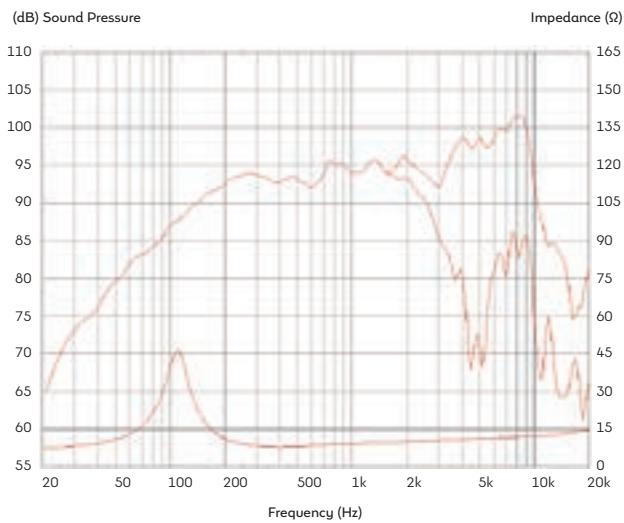
**200Wrms**  
(AES standard)  
power rating

**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

## 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 2n 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.



CELESTION

## FTR18-4080HDX

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



### GENERAL SPECIFICATIONS

Nominal diameter .....	457mm/18in
Power rating <sup>1</sup> .....	1000Wrms
Continuous power rating <sup>2</sup> .....	2000W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	95dB
Frequency range .....	30-2,500Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	3.1kg/11oz
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 <sup>4</sup> .....	8mm/0.33in
Gap depth .....	9.5mm/0.37in
Voice coil winding width .....	25mm/0.99in

### SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	1134.12cm <sup>2</sup> /175.79in <sup>2</sup>
Fs .....	39.2Hz
Mms .....	171.75g/6.06oz
Qms .....	5.387
Qes .....	0.466
Qts .....	0.429
Re .....	5Ω
Vas .....	174.88l/6.18ft <sup>3</sup>
Bl .....	21.29Tm
Cms .....	0.1mm/N
Rms .....	7.85kg/s
Le (at 1kHz) .....	1.79mH

### MOUNTING INFORMATION

Overall diameter .....	452mm/17.8in
Overall depth .....	205mm/8.07in
Cut-out diameter .....	416mm/16.38in
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



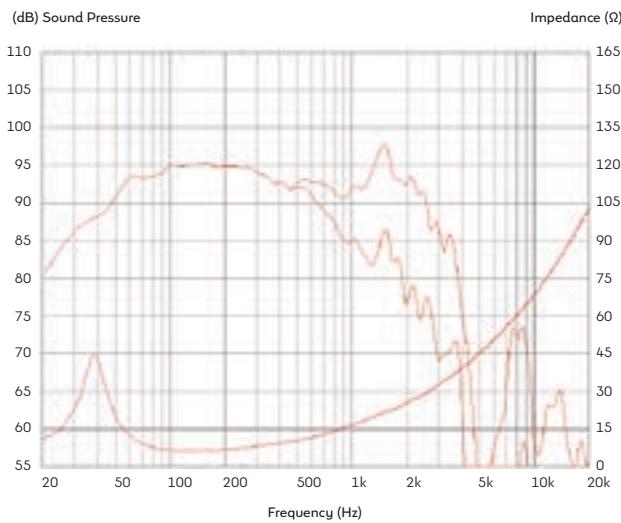
**1000Wrms**  
(AES standard)  
power rating

**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



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 2n 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.



## FTR18-4080FD

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



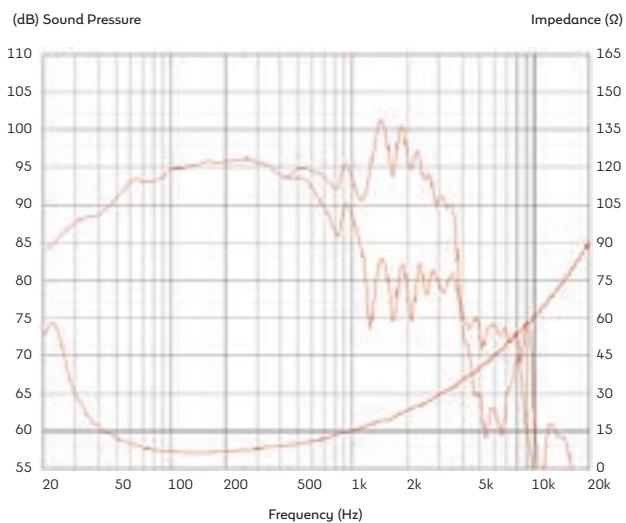
**1000Wrms**  
(AES standard)  
power rating

**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



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 2n anechoic environment.
5. Xmax derived from: (voice coil winding width-gap depth)/2.

### GENERAL SPECIFICATIONS

Nominal diameter .....	457mm/18in
Power rating <sup>1</sup> .....	1000Wrms
Continuous power rating <sup>2</sup> .....	2000W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	97dB
Frequency range .....	30-2,500Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	3.1kg/11oz
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 <sup>4</sup> .....	6mm/0.24in
Gap depth .....	10mm/0.39in
Voice coil winding width .....	22mm/0.87in

### SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd.....	1134.12cm <sup>2</sup> /175.79in <sup>2</sup>
Fs.....	25.2Hz
Mms.....	177.81g/6.27oz
Qms.....	4.750
Qes.....	0.304
Qts.....	0.286
Re.....	5.62Ω
Vas.....	408.72l/14.43ft <sup>3</sup>
Bl.....	22.81Tm
Cms.....	0.23mm/N
Rms.....	5.92kg/s
Le (at 1kHz) .....	1.5mH

### MOUNTING INFORMATION

Overall diameter .....	452mm/17.8in
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 .....	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 .....	11.5kg/25.3lb
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

# FTR18-4080F

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



## GENERAL SPECIFICATIONS

Nominal diameter .....	457mm/18in
Power rating <sup>1</sup> .....	600Wrms
Continuous power rating <sup>2</sup> .....	1200W
EIA power rating <sup>3</sup> .....	800W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	97dB
Frequency range .....	30-3,000Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	3.1kg/11oz
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 <sup>5</sup> .....	6mm/0.24in
Gap depth .....	10mm/0.39in
Voice coil winding width .....	22mm/0.87in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	1134.12cm <sup>2</sup> /175.79in <sup>2</sup>
Fs .....	32.5Hz
Mms .....	155.6g/5.49oz
Qms .....	4.334
Qes .....	0.335
Qts .....	0.311
Re .....	5.32Ω
Vas .....	281.3l/9.93ft <sup>3</sup>
Bl .....	22.48Tm
Cms .....	0.15mm/N
Rms .....	7.34kg/s
Le (at 1kHz) .....	1.25mH

## MOUNTING INFORMATION

Overall diameter .....	452mm/17.8in
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 .....	9.7kg/21.4lb

## PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	500mm x 500mm x 240mm 19.7in x 19.7in x 9.4in
Single pack weight .....	11.4kg/25.1lb
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



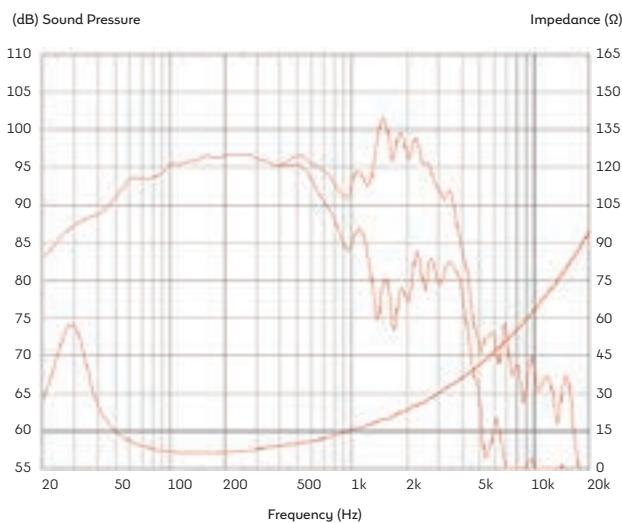
**600Wrms**  
(AES standard)  
power rating

**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



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-426-A standard.
4. Measured on axis at 1W, 1m in 2n 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.

## FTR15-4080HDX

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



**1000Wrms**

(AES standard)  
power rating

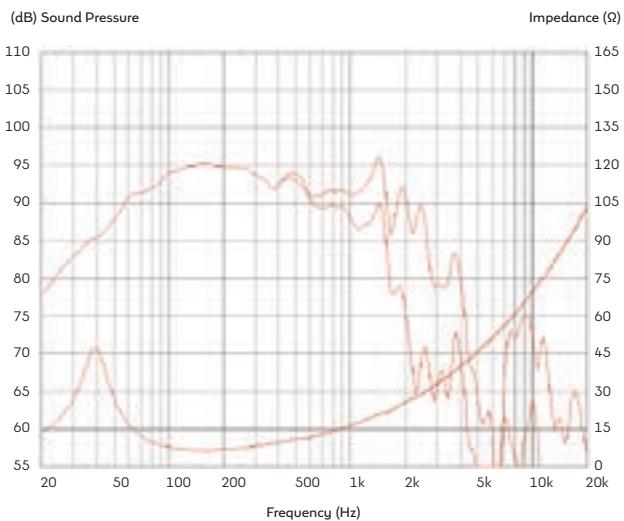
**96dB**

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

### 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 2n 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 4Ω, data available on request

### GENERAL SPECIFICATIONS

Nominal diameter .....	381mm/15in
Power rating <sup>1</sup> .....	1000Wrms
Continuous power rating <sup>2</sup> .....	2000W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	96dB
Frequency range .....	40-2,500Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	3.1kg/11oz
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 <sup>4</sup> .....	8mm/0.33in
Gap depth .....	9.5mm/0.37in
Voice coil winding width .....	25mm/0.99in

### SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	855.3cm <sup>2</sup> /132.57in <sup>2</sup>
Fs .....	40Hz
Mms .....	147.45g/5.2oz
Qms .....	3.089
Qes .....	0.357
Qts .....	0.320
Re .....	5.12Ω
Vas .....	111.2l/3.93ft <sup>3</sup>
Bl .....	23.07Tm
Cms .....	0.11mm/N
Rms .....	13.77kg/s
Le (at 1kHz) .....	1.73mH

### MOUNTING INFORMATION

Overall diameter .....	385mm/15.16in
Overall depth .....	180mm/7.1in
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 .....	9.7kg/21.4lb

### PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	435mm x 435mm x 200mm 17.1in x 17.1in x 7.9in
Single pack weight .....	11.5kg/25.4lb
Multi pack qty .....	36
Multi pack size (WxDxH) .....	1210mm x 1050mm x 980mm 47.6in x 41.3in x 35.4in
Multi pack weight .....	380kg/835lb

## FTR15-4080FD

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



### GENERAL SPECIFICATIONS

Nominal diameter .....	381mm/15in
Power rating <sup>1</sup> .....	1000Wrms
Continuous power rating <sup>2</sup> .....	2000W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	97dB
Frequency range .....	35-2,500Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	3.1kg/11oz
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 <sup>4</sup> .....	6mm/0.24in
Gap depth .....	10mm/0.39in
Voice coil winding width .....	22mm/0.87in

### SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	855.3cm <sup>2</sup> /132.57in <sup>2</sup>
Fs .....	35.4Hz
Mms .....	127.19g/4.49oz
Qms .....	3.913
Qes .....	0.3
Qts .....	0.28
Re .....	5.6Ω
Vas .....	164.3l/5.8ft <sup>3</sup>
Bl .....	23.05Tm
Cms .....	0.16mm/N
Rms .....	7.24kg/s
Le (at 1kHz) .....	1.38mH

### 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 .....	9.5kg/20.9lb

### PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	435mm x 435mm x 200mm 17.1in x 17.1in x 7.9in
Single pack weight .....	10.8kg/23.8lb
Multi pack qty .....	36
Multi pack size (WxDxH) .....	1210mm x 1050mm x 980mm 47.6in x 41.3in x 35.4in
Multi pack weight .....	375kg/825lb



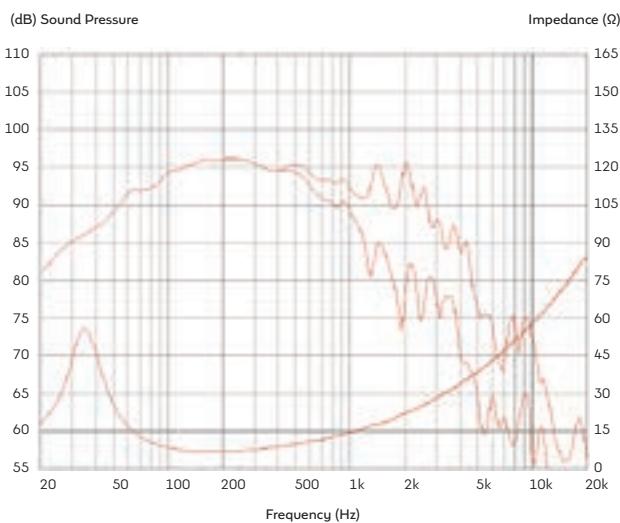
**1000Wrms**  
(AES standard)  
power rating

**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



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 2n 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.



## FTR15-4080F

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



**600Wrms**

(AES standard)  
power rating

**97dB**

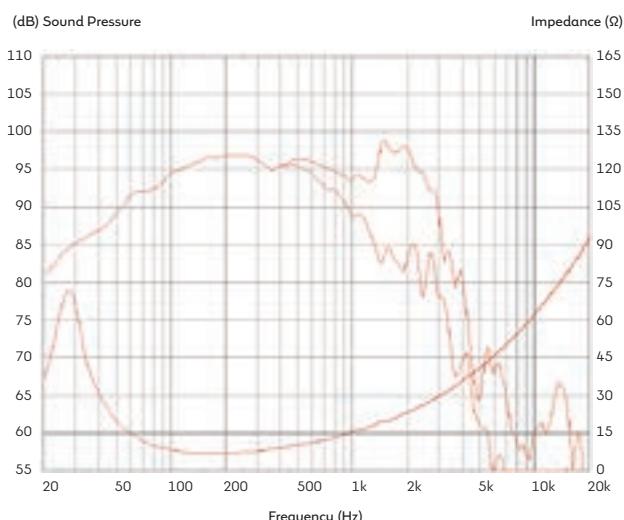
sensitivity

**4-inch**

inside/outside  
voice coil

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

### 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-4-26-A standard.
4. Measured on axis at 1W, 1m in 2n 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.

### GENERAL SPECIFICATIONS

Nominal diameter .....	381mm/15in
Power rating <sup>1</sup> .....	600Wrms
Continuous power rating <sup>2</sup> .....	1200W
EIA power rating <sup>3</sup> .....	800W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	97dB
Frequency range .....	35-3,000Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	3.1kg/11oz
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 <sup>5</sup> .....	6mm/0.24in
Gap depth .....	10mm/0.39in
Voice coil winding width .....	22mm/0.87in

### SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	855.3cm <sup>2</sup> /132.57in <sup>2</sup>
Fs .....	38Hz
Mms .....	111.7g/3.94oz
Qms .....	2.855
Qes .....	0.273
Qts .....	0.249
Re .....	5.67Ω
Vas .....	163.1l/5.76ft <sup>3</sup>
Bl .....	23.54Tm
Cms .....	0.16mm/N
Rms .....	9.34kg/s
Le (at 1kHz) .....	1.48mH

### 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 17.1in x 17.1in x 7.9in
Single pack weight .....	10.7kg/23.6lb
Multi pack qty .....	36
Multi pack size (WxDxH) .....	1210mm x 1050mm x 980mm 47.6in x 41.3in x 35.4in
Multi pack weight .....	375kg/825lb

100

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

# FTR15-3070E

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



## GENERAL SPECIFICATIONS

Nominal diameter .....	381mm/15in
Power rating <sup>1</sup> .....	400Wrms
Continuous power rating <sup>2</sup> .....	800W
EIA power rating <sup>3</sup> .....	500W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	97dB
Frequency range .....	40-4,000Hz
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 <sup>5</sup> .....	5.5mm/0.22in
Gap depth .....	9mm/0.35in
Voice coil winding width .....	20mm/0.79in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	855.3cm <sup>2</sup> /132.57in <sup>2</sup>
Fs .....	45.9Hz
Mms .....	85.53g/3.02oz
Qms .....	3.409
Qes .....	0.426
Qts .....	0.379
Re .....	5.52Ω
Vas .....	145.75l/5.15ft <sup>3</sup>
Bl .....	17.87Tm
Cms .....	0.14mm/N
Rms .....	7.23kg/s
Le (at 1kHz) .....	1.21mH

## MOUNTING INFORMATION

Overall diameter .....	385mm/15.16in
Overall depth .....	161mm/6.34in
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 .....	6.4kg/14.1lb

## PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	435mm x 435mm x 200mm 17.1in x 17.1in x 7.9in
Single pack weight .....	7.7kg/17lb
Multi pack qty .....	36
Multi pack size (WxDxH) .....	1210mm x 1050mm x 980mm 47.6in x 41.3in x 35.4in
Multi pack weight .....	260kg/570lb



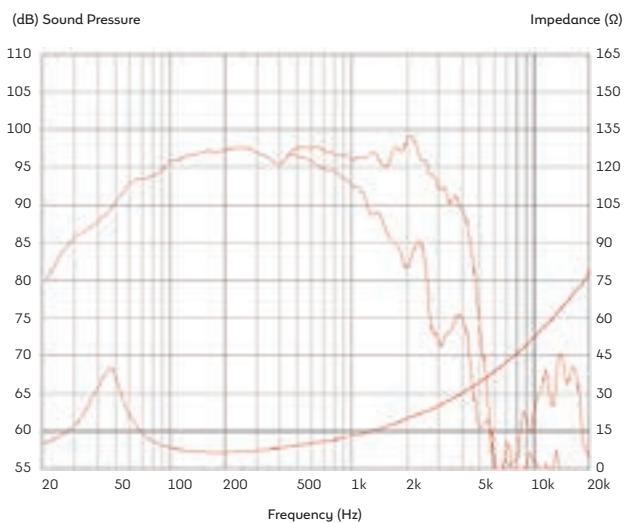
**400Wrms**  
(AES standard)  
power rating

**97dB**  
sensitivity

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

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

## 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-426-A standard.

4. Measured on axis at 1W, 1m in 2n 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



## FTR15-3070C

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



**400Wrms**

(AES standard)  
power rating

**99dB**

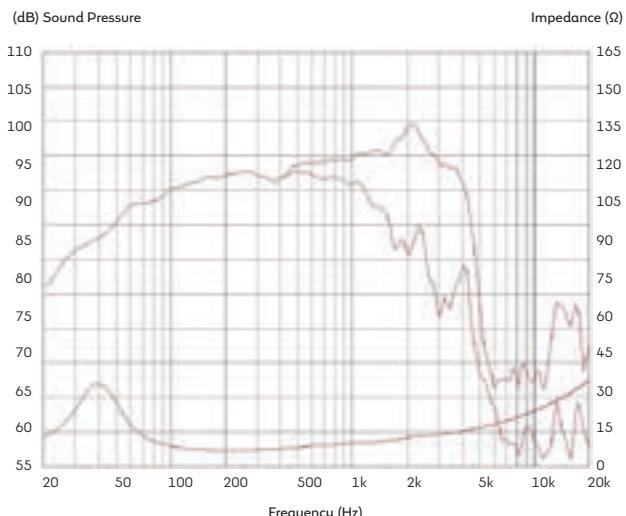
sensitivity

**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



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-426-A standard.

4. Measured on axis at 1W, 1m in 2n 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.

### GENERAL SPECIFICATIONS

Nominal diameter .....	381mm/15in
Power rating <sup>1</sup> .....	400Wrms
Continuous power rating <sup>2</sup> .....	800W
EIA power rating <sup>3</sup> .....	500W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	99dB
Frequency range .....	40-4,000Hz
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 <sup>5</sup> .....	3mm/0.12in
Gap depth .....	10mm/0.39in
Voice coil winding width .....	16mm/0.63in

### SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	855.3cm <sup>2</sup> /132.57in <sup>2</sup>
Fs .....	41.4Hz
Mms .....	81.73g/2.88oz
Qms .....	3.510
Qes .....	0.429
Qts .....	0.382
Re .....	6.7Ω
Vas .....	187.62l/6.63ft <sup>3</sup>
Bl .....	18.3Tm
Cms .....	0.18mm/N
Rms .....	6.05kg/s
Le (at 1kHz) .....	0.59mH

### MOUNTING INFORMATION

Overall diameter .....	385mm/15.16in
Overall depth .....	158mm/6.22in
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 .....	6.3kg/13.8lb

### PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	435mm x 435mm x 200mm 17.1in x 17.1in x 7.9in
Single pack weight .....	7.7kg/17lb
Multi pack qty .....	36
Multi pack size (WxDxH) .....	1210mm x 1050mm x 980mm 47.6in x 41.3in x 35.4in
Multi pack weight .....	260kg/570lb

## FTR12-4080HDX

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



### GENERAL SPECIFICATIONS

Nominal diameter .....	305mm/12in
Power rating <sup>1</sup> .....	1000Wrms
Continuous power rating <sup>2</sup> .....	2000W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	93dB
Frequency range .....	47-3,000Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	3.1kg/11oz
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 <sup>4</sup> .....	8mm/0.32in
Gap depth .....	9.5mm/0.37in
Voice coil winding width .....	25mm/0.98in

### SMALL SIGNAL PARAMETERS<sup>5</sup>

Sd .....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
Fs .....	61Hz
Mms .....	126.3g/4.46oz
Qms .....	2.258
Qes .....	0.479
Qts .....	0.395
Re .....	6Ω
Vas .....	21.49l/0.76ft <sup>3</sup>
Bl .....	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
Mounting slot dimensions .....	10mm x 7mm/0.39in x 0.27in
Number of mounting slots .....	8
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 13.8in x 13.8in x 7.1in
Single pack weight .....	11.4kg/25.1lb
Multi pack qty .....	36
Multi pack size (WxDxH) .....	1210mm x 1050mm x 980mm 47.6in x 41.3in x 35.4in
Multi pack weight .....	375kg/825lb



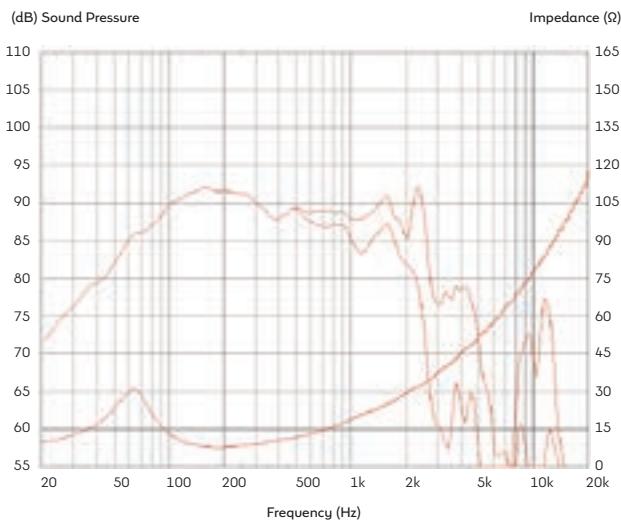
**1000Wrms**  
(AES standard)  
power rating

**93dB**  
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



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 2n 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

**FTR12-4080DL**

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

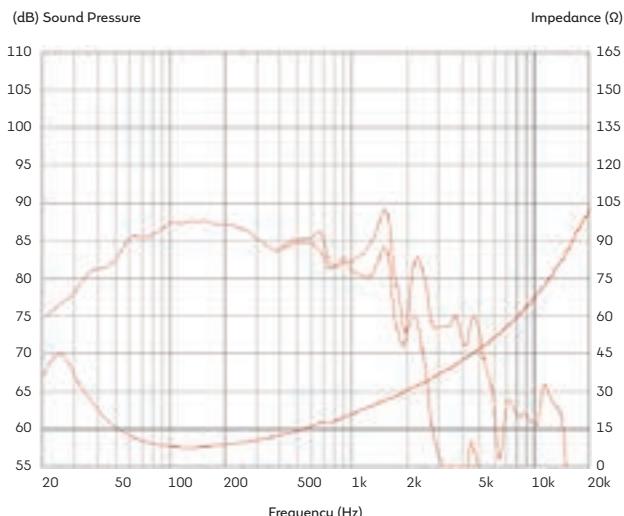


**700Wrms**  
(AES standard)  
power rating

**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

**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 2n 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 .....	305mm/12in
Power rating <sup>1</sup> .....	700Wrms
Continuous power rating <sup>2</sup> .....	1400W
Nominal impedance .....	8Ω
Sensitivity <sup>3</sup> .....	88dB
Frequency range .....	20-300Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	3.6kg/12.6oz
Voice coil diameter .....	100mm/4in
Voice coil material .....	Round copper
Former material .....	Aluminium
Cone material .....	Glass loaded paper (weather resistant)
Surround material .....	Elastomer
Suspension .....	Double
Xmax <sup>4</sup> .....	11.25mm/0.44in
Gap depth .....	9.5mm/0.37in
Voice coil winding width .....	32mm/1.26in

**SMALL SIGNAL PARAMETERS<sup>5</sup>**

Sd .....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
Fs .....	28.9Hz
Mms .....	176.07g/6.21oz
Qms .....	2.466
Qes .....	0.345
Qts .....	0.303
Re .....	6.24Ω
Vas .....	68.6l/2.42ft <sup>3</sup>
Bl .....	24.05Tm
Cms .....	0.17mm/N
Rms .....	12.97kg/s
Le (at 1kHz) .....	2.07mH

**MOUNTING INFORMATION**

Overall diameter .....	313mm/12.3in
Overall depth .....	169mm/6.7in
Cut-out diameter .....	282mm/11.1in
Mounting slot dimensions .....	10mm x 7mm/0.39in x 0.27in
Number of mounting slots .....	8
Mounting PCD .....	291-301mm/11.7-11.9in
Unit weight .....	10.2kg/22.4lb

**PACKED DIMENSIONS & WEIGHT**

Multi pack qty .....	36
Multi pack size (WxDxH) .....	1210mm x 1050mm x 980mm 47.6in x 41.3in x 35.4in
Multi pack weight .....	400kg/880lb

# FTR12-3070C

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



## GENERAL SPECIFICATIONS

Nominal diameter .....	305mm/12in
Power rating <sup>1</sup> .....	350Wrms
Continuous power rating <sup>2</sup> .....	700W
EIA power rating <sup>3</sup> .....	500W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	96dB
Frequency range .....	40-4,000Hz
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 <sup>5</sup> .....	3mm/0.12in
Gap depth .....	10mm/0.4in
Voice coil winding width .....	16mm/0.63in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
Fs .....	65.1Hz
Mms .....	54.61g/1.93oz
Qms .....	2.804
Qes .....	0.36
Qts .....	0.32
Re .....	5.59Ω
Vas .....	43.7V/1.54ft <sup>3</sup>
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 .....	8
Mounting PCD .....	298-304mm/11.7-12in
Unit weight .....	6.3kg/13.9lb

## PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	350mm x 350mm x 180mm 13.8in x 13.8in x 7.1in
Single pack weight .....	6.3kg/13.9lb
Multi pack qty .....	60
Multi pack size (WxDxH) .....	1210mm x 1050mm x 980mm 47.6in x 41.3in x 35.4in
Multi pack weight .....	410kg/900lb



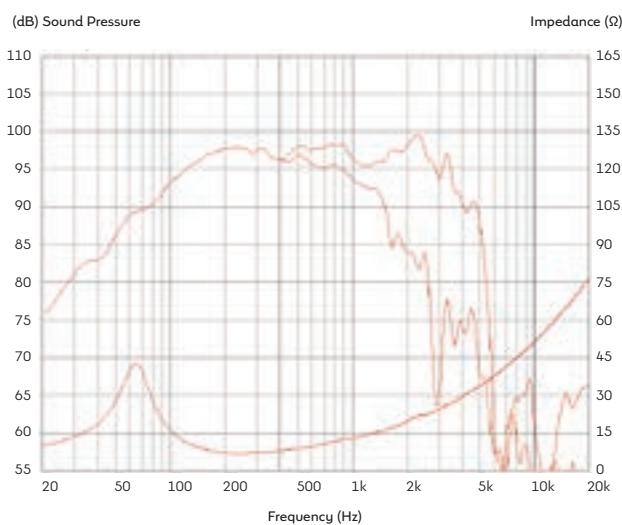
**350Wrms**  
(AES standard)  
power rating

**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



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-426-A standard.

4. Measured on axis at 1W, 1m in 2n 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**



**250Wrms**

(AES standard)  
power rating

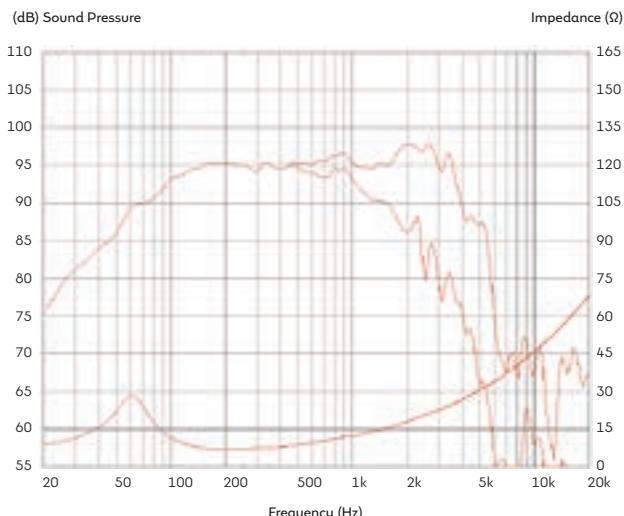
**95dB**

sensitivity

**2.5-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.

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 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.

### GENERAL SPECIFICATIONS

Nominal diameter .....	305mm/12in
Power rating <sup>1</sup> .....	250Wrms
Continuous power rating <sup>2</sup> .....	500W
EIA power rating <sup>3</sup> .....	400W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	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
$X_{max}$ <sup>5</sup> .....	4mm/0.16in
Gap depth .....	8mm/0.33in
Voice coil winding width .....	16.5mm/0.65in

### SMALL SIGNAL PARAMETERS<sup>6</sup>

$S_d$ .....	530.98cm <sup>2</sup> /82.3in <sup>2</sup>
$F_s$ .....	60.3Hz
$M_{ms}$ .....	56.56g/1.99oz
$Q_{ms}$ .....	2.404
$Q_{es}$ .....	0.506
$Q_{ts}$ .....	0.418
$R_e$ .....	5.63Ω
$V_{as}$ .....	49.14l/1.74ft <sup>3</sup>
$B_l$ .....	15.45Tm
$C_{ms}$ .....	0.12mm/N
$R_{ms}$ .....	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 47.6in x 41.3in x 27.6in
Multi pack weight .....	185kg/410lb

# FTR10-2055D

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



## GENERAL SPECIFICATIONS

Nominal diameter .....	254mm/10in
Power rating <sup>1</sup> .....	200Wrms
Continuous power rating <sup>2</sup> .....	400W
EIA power rating <sup>3</sup> .....	350W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	93.5dB
Frequency range .....	60-4,000Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	1.3kg/36oz
Voice coil diameter .....	50mm/2in
Voice coil material .....	Round Copper
Former material .....	Glass fibre
Cone material .....	Kevlar loaded paper
Surround material .....	Cloth sealed
Suspension .....	Single
Xmax <sup>5</sup> .....	4mm/0.16in
Gap depth .....	8mm/0.33in
Voice coil winding width .....	16mm/0.63in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	346.36cm <sup>2</sup> /53.69in <sup>2</sup>
Fs .....	57.5Hz
Mms .....	35.19g/1.24oz
Qms .....	2.734
Qes .....	0.392
Qts .....	0.343
Re .....	5.88Ω
Vas .....	36.91l/1.3ft <sup>3</sup>
Bl .....	13.81Tm
Cms .....	0.22mm/N
Rms .....	4.65kg/s
Le (at 1kHz) .....	0.46mH

## MOUNTING INFORMATION

Overall diameter .....	260mm/10.2in
Overall depth .....	112mm/4.4in
Cut-out diameter .....	232mm/9.1in
Mounting slot dimensions ..	6.5mm x 7.5mm/0.26in x 0.29in
Number of mounting slots .....	8
Mounting PCD .....	244-247mm/9.6-9.7in
Unit weight .....	4kg/8.8lb

## PACKED DIMENSIONS & WEIGHT

Multi pack qty .....	36
Multi pack size (WxDxH) .....	1080mm x 960mm x 890mm ..... 42.5in x 37.8in x 35in
Multi pack weight .....	175kg/385lb

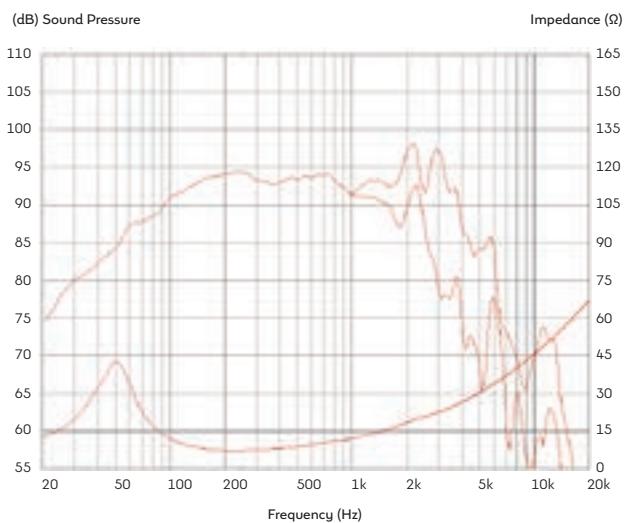


**200Wrms**  
(AES standard)  
power rating

**94dB**  
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

- 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.
- Continuous Power Rating is defined as 3dB greater than the AES rating.
- Tested as per the EIA-426-A standard.
- Measured on axis at 1W, 1m in 2n anechoic environment.
- Xmax derived from: (voice coil winding width-gap depth)/2.
- Small signal parameters measured after unit subjected to pre-conditioning signal.



## FTR08-2011D

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



**200Wrms**

(AES standard)  
power rating

**94dB**

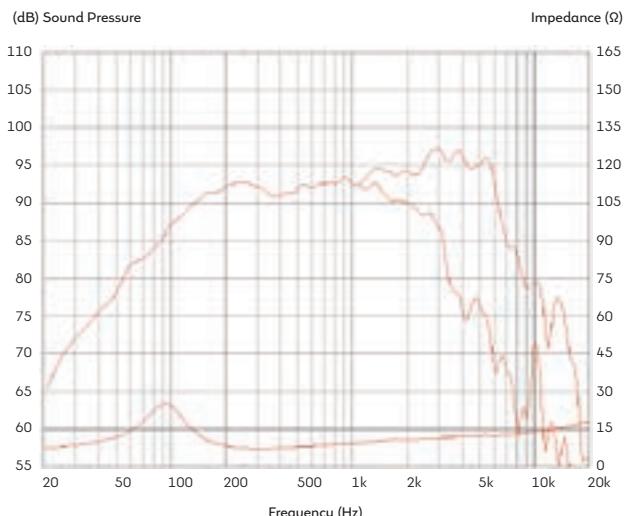
sensitivity

**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

### 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-426-A standard.
4. Measured on axis at 1W, 1m in 2n 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.

### GENERAL SPECIFICATIONS

Nominal diameter .....	200mm/8in
Power rating <sup>1</sup> .....	200Wrms
Continuous power rating <sup>2</sup> .....	400W
EIA power rating <sup>3</sup> .....	350W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	93dB
Frequency range .....	70-6,000Hz
Chassis type .....	Cast Aluminium
Magnet type .....	Ferrite
Magnet weight .....	1.2kg/4.2oz
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 <sup>5</sup> .....	3.5mm/0.137in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	15mm/0.59in

### SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	226.98cm <sup>2</sup> /35.18in <sup>2</sup>
Fs .....	86.1Hz
Mms .....	27.75g/0.98oz
Qms .....	2.238
Qes .....	0.541
Qts .....	0.436
Re .....	5.82Ω
Vas .....	8.99l/0.32ft <sup>3</sup>
Bl .....	12.71Tm
Cms .....	0.12mm/N
Rms .....	6.71kg/s
Le (at 1kHz) .....	0.38mH

### 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 8.9in x 8.9in x 5.1in
Single pack weight .....	3.8kg/8.4lb
Multi pack qty .....	8
Multi pack size (WxDxH) .....	470mm x 450mm x 270mm 18.5in x 17.7in x 10.6in
Multi pack weight .....	31kg/68lb



# LF PRESSED CHASSIS NEO

**Neo magnet pressed  
steel chassis drivers**

	Nominal Diameter	Power Rating*	Nominal Impedance	Sensitivity	Frequency Range	Voice Coil Diameter	Unit Weight
<b>TN1530</b>	381mm/15in	300Wrms	8Ω	98dB	40-3,000Hz	75mm/3in	2.8kg/6.2lb
<b>TN1225</b>	305mm/12in	250Wrms	8Ω	99dB	50-4,000Hz	64mm/2.5in	2kg/4.4lb
<b>TN1020</b>	254mm/10in	150Wrms	8Ω	98dB	65-4,000Hz	50mm/2in	1.5kg/3.4lb
<b>TN0820</b>	200mm/8in	150Wrms	8Ω	94dB	60-4,000Hz	50mm/2in	1.3kg/2.9lb

# TN1530

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



## GENERAL SPECIFICATIONS

Nominal diameter .....	381mm/15in
Power rating <sup>1</sup> .....	300Wrms
Continuous power rating <sup>2</sup> .....	600W
EIA power rating <sup>3</sup> .....	450W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	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 <sup>5</sup> .....	3.75mm/0.15in
Gap depth .....	10mm/0.39in
Voice coil winding width .....	17.5mm/0.69in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	855.3cm <sup>2</sup> /132.57in <sup>2</sup>
Fs .....	42.5Hz
Mms .....	92.58g/3.27oz
Qms .....	2.619
Qes .....	0.358
Qt .....	0.315
Re .....	5.38Ω
Vas .....	156.55l/5.53ft <sup>3</sup>
Bl .....	19.29Tm
Cms .....	0.15mm/N
Rms .....	9.45kg/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 16.1in x 16.1in x 7.1in
Single pack weight .....	3.2kg/7lb
Multi pack qty .....	45
Multi pack size (WxDxH) .....	1200mm x 1000mm x 980mm 47.2in x 39.4in x 38.6in
Multi pack weight .....	150kg/330lb



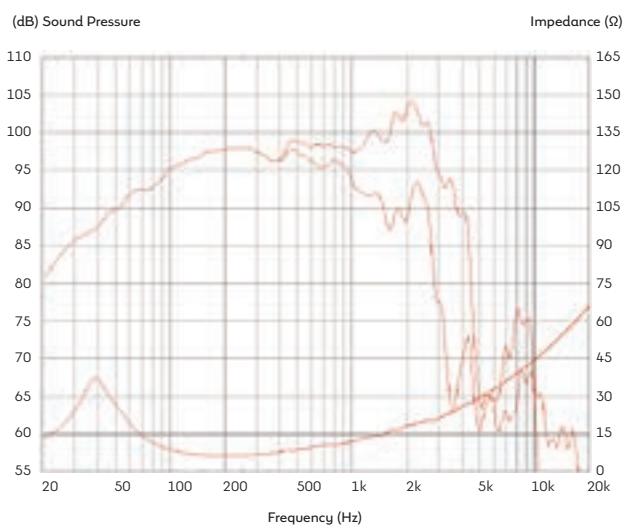
**300Wrms**  
(AES standard)  
power rating

**98dB**  
sensitivity

**3-inch**  
round copper  
voice coil

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

## 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-426-A standard

4. Measured on axis at 1W, 1m in 2n 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.

# TN1225

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



**250Wrms**

(AES standard)  
power rating

**99dB**

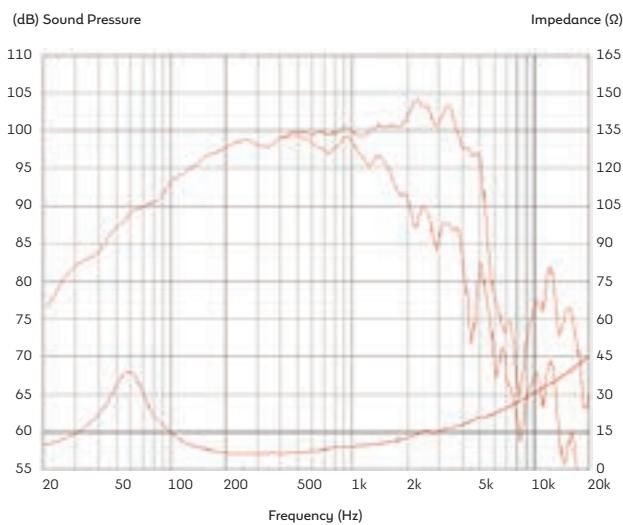
sensitivity

**2.5-inch**

round copper  
voice coil

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

## 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-426-A standard

4. Measured on axis at 1W, 1m in 2n 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.

## GENERAL SPECIFICATIONS

Nominal diameter .....	305mm/12in
Power rating <sup>1</sup> .....	250Wrms
Continuous power rating <sup>2</sup> .....	500W
EIA power rating <sup>3</sup> .....	400W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	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
Cone material .....	Kevlar loaded paper
Surround material .....	Cloth sealed
Suspension .....	Single
Xmax <sup>5</sup> .....	2.5mm/0.1in
Gap depth .....	8mm/0.32in
Voice coil winding width .....	13mm/0.51in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
Fs .....	61.4Hz
Mms .....	42.12g/1.49oz
Qms .....	3.118
Qes .....	0.339
Qts .....	0.306
Re .....	5.2Ω
Vas .....	63.69l/2.25ft <sup>3</sup>
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 .....	4
Mounting PCD .....	297mm/11.69in
Unit weight .....	2kg/4.4lb

## PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	330mm x 330mm x 150mm 13in x 13in x 5.9in
Single pack weight .....	2.4kg/5.3lb
Multi pack qty .....	60
Multi pack size (WxDxH) .....	1008mm x 980mm x 860mm 39.7in x 38.6in x 33.9in
Multi pack weight .....	150kg/330lb

# TN1020

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



## GENERAL SPECIFICATIONS

Nominal diameter .....	254mm/10in
Power rating <sup>1</sup> .....	150Wrms
Continuous power rating <sup>2</sup> .....	300W
EIA power rating <sup>3</sup> .....	250W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	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 <sup>5</sup> .....	2mm/0.08in
Gap depth .....	8mm/0.32in
Voice coil winding width .....	12mm/0.47in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	346.36cm <sup>2</sup> /53.69in <sup>2</sup>
Fs .....	95Hz
Mms .....	29.88g/1.05oz
Qms .....	3.164
Qes .....	0.451
Qts .....	0.395
Re .....	5.63Ω
Vas .....	16.01/0.57ft <sup>3</sup>
Bl .....	14.93Tm
Cms .....	0.09mm/N
Rms .....	5.63kg/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



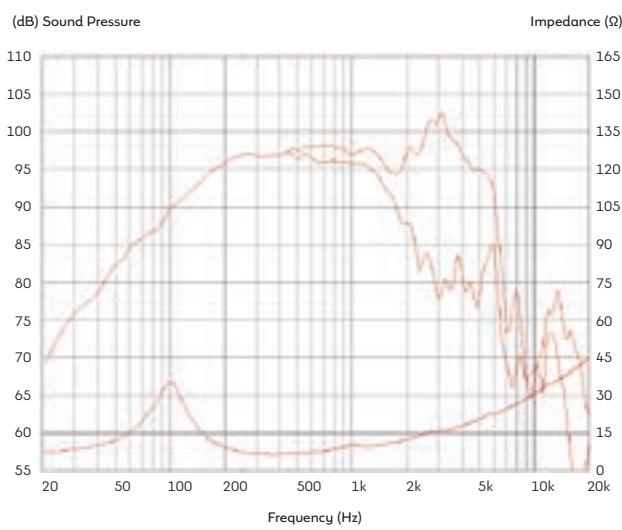
**150Wrms**  
(AES standard)  
power rating

**98dB**  
sensitivity

**2-inch**  
round copper  
voice coil

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

## 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-426-A standard

4. Measured on axis at 1W, 1m in 2n 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.



## TN0820

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



**150Wrms**

(AES standard)  
power rating

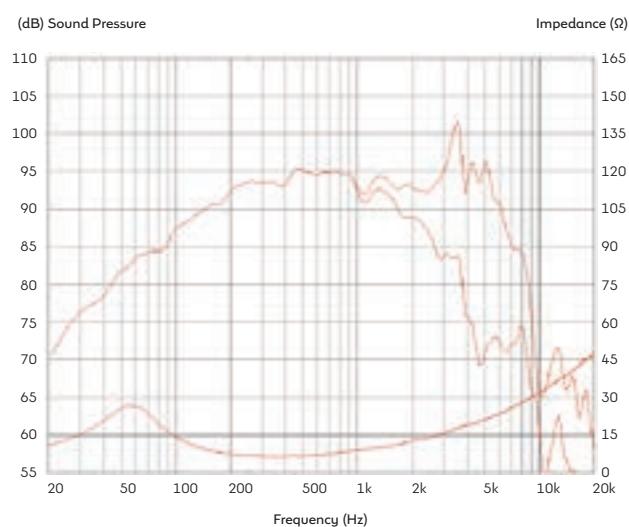
**94dB**

sensitivity

**2-inch**  
round copper  
voice coil

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

### 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-426-A standard

4. Measured on axis at 1W, 1m in 2n 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.

### GENERAL SPECIFICATIONS

Nominal diameter .....	203mm/8in
Power rating <sup>1</sup> .....	150Wrms
Continuous power rating <sup>2</sup> .....	300W
EIA power rating <sup>3</sup> .....	250W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	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
Xmax <sup>5</sup> .....	2mm/0.08in
Gap depth .....	8mm/0.32in
Voice coil winding width .....	12mm/0.47in

### SMALL SIGNAL PARAMETERS<sup>6</sup>

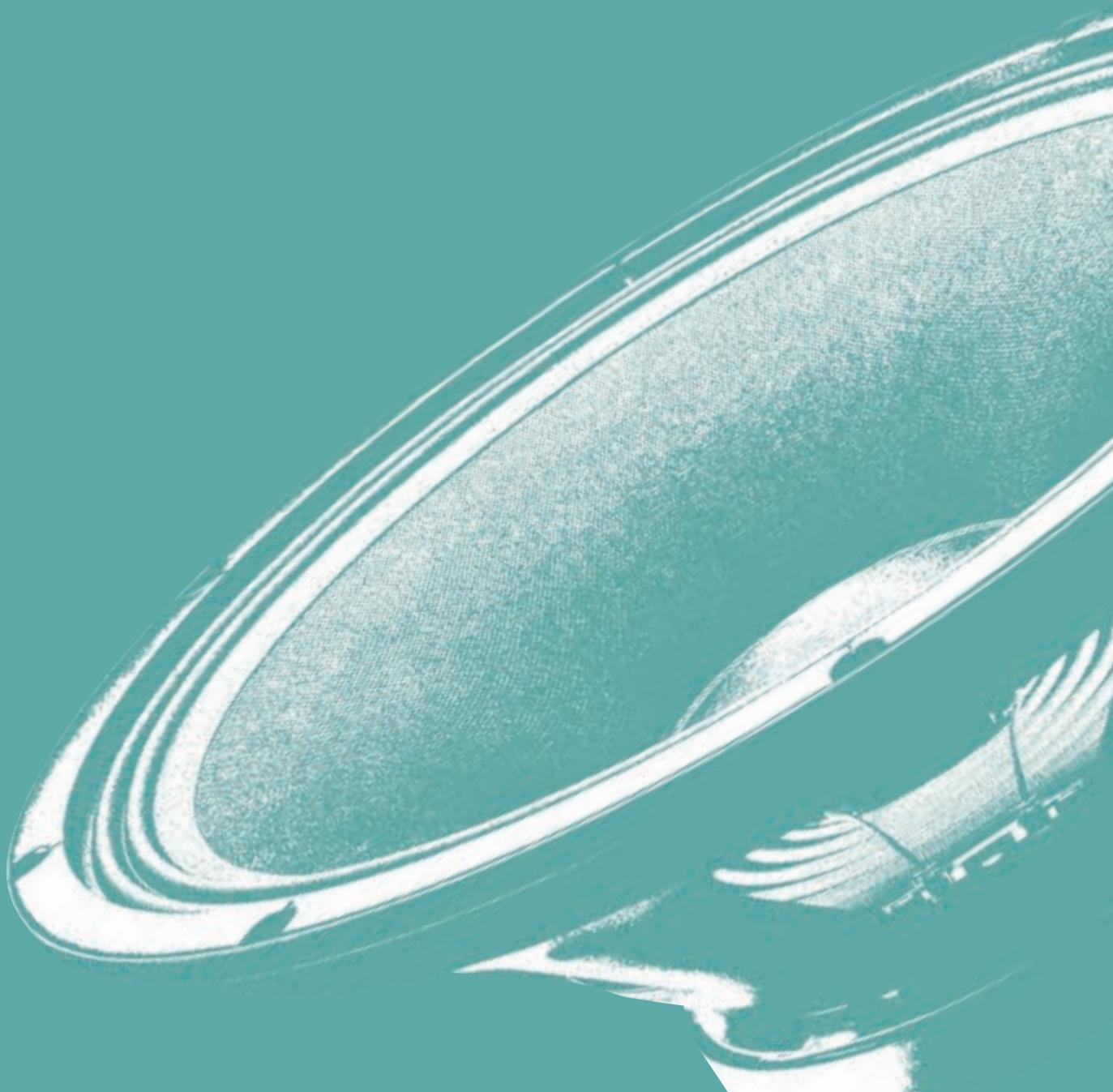
Sd .....	226.98cm <sup>2</sup> /35.18in <sup>2</sup>
Fs .....	61.9Hz
Mms .....	21.98g/0.78oz
Qms .....	1.563
Qes .....	0.346
Qts .....	0.283
Re .....	5.62Ω
Vas .....	21.92l/0.77ft <sup>3</sup>
Bl .....	11.79Tm
Cms .....	0.3mm/N
Rms .....	5.47kg/s
Le (at 1kHz) .....	0.65mH

### 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 9.1in x 9.1in x 4.3in
Single pack weight .....	1.4kg/3.1lb
Multi pack qty .....	120
Multi pack size (WxDxH) .....	980mm x 880mm x 840mm 38.6in x 34.6in x 33.1in
Multi pack weight .....	190kg/420lb



# LF PRESSED CHASSIS FERRITE

Ferrite magnet pressed  
steel chassis drivers

	Nominal Diameter	Power Rating*	Nominal Impedance	Sensitivity	Frequency Range	Voice Coil Diameter	Unit Weight
<b>TF1830</b>	457mm/18in	500Wrms	4Ω	96dB	35-1,000Hz	75mm/3in	7.5kg/16.5lb
<b>TF1530SL</b>	381mm/15in	350Wrms	4/8Ω	98dB	40-3,000Hz	75mm/3in	5kg/11lb
<b>TF1530e</b>	381mm/15in	400Wrms	8Ω	98dB	40-3,000Hz	75mm/3in	6.5kg/14.3lb
<b>TF1530</b>	381mm/15in	400Wrms	4/8Ω	99dB	40-3,000Hz	75mm/3in	6.9kg/15.2lb
<b>TF1525e</b>	381mm/15in	300Wrms	4/8Ω	97dB	45-3,500Hz	64mm/2.5in	4.8kg/10.6lb
<b>TF1525</b>	381mm/15in	250Wrms	8Ω	98dB	40-3,000Hz	64mm/2.5in	5.2kg/11.5lb
<b>TF1520</b>	381mm/15in	150Wrms	8Ω	96dB	45-4,000Hz	50mm/2in	5kg/11lb
<b>TF1230SL</b>	305mm/12in	350Wrms	4/8Ω	97dB	50-4,000Hz	75mm/3in	4.3kg/9.5lb
<b>TF1230S</b>	305mm/12in	300Wrms	8Ω	96dB	50-4,000Hz	75mm/3in	4.3kg/9.5lb
<b>TF1230</b>	305mm/12in	350Wrms	8Ω	94dB	45-3,000Hz	75mm/3in	4.3kg/9.46lb
<b>TF1225e</b>	305mm/12in	300Wrms	8Ω	96dB	50-3,000Hz	64mm/2.5in	4.4kg/9.7lb
<b>TF1225</b>	305mm/12in	250Wrms	4/8Ω	97dB	50-4,000Hz	64mm/2.5in	4.1kg/9lb
<b>TF1220</b>	305mm/12in	150Wrms	8Ω	97dB	60-4,000Hz	50mm/2in	4kg/8.8lb
<b>TF1218</b>	305mm/12in	100Wrms	8Ω	97dB	60-4,500Hz	44mm/1.75in	2.7kg/6lb
<b>TF1020</b>	254mm/10in	150Wrms	4/8Ω	97dB	60-3,000Hz	50mm/2in	3.7kg/8.2lb
<b>TF1018</b>	254mm/10in	100Wrms	8Ω	96dB	70-6,000Hz	44mm/1.75in	2.4kg/5.3lb
<b>TF0818</b>	203mm/8in	100Wrms	4/8/16Ω	94dB	70-6,000Hz	44mm/1.75in	2.3kg/5.1lb
<b>TF0818MR</b>	203mm/8in	100Wrms	8Ω	99dB	800-5,000Hz	44mm/1.75in	1.9kg/4.2lb
<b>TF0615</b>	152mm/6in	100Wrms	8Ω	95dB	85-6,000Hz	38mm/1.5in	1.4kg/3.1lb
<b>TF0615MR</b>	152mm/6in	50Wrms	8Ω	97dB	500-5,000Hz	38mm/1.5in	1.4kg/3.1lb
<b>TF0510</b>	127mm/5in	30Wrms	8Ω	91dB	130-8,000Hz	25mm/1in	1kg/2.2lb
<b>TF0510MR</b>	127mm/5in	30Wrms	8Ω	93dB	400-8,000Hz	25mm/1in	1.1kg/2.4lb
<b>TF0410MR</b>	100mm/4in	30Wrms	8Ω	90dB	400-10,000Hz	25mm/1in	1.2kg/2.6lb
<b>K12H-200TC</b>	305mm/12in	200Wrms	8Ω	98dB	50-10,000Hz	44mm/1.75in	3.9kg/8.6lb
<b>K12H-100TC</b>	305mm/12in	100Wrms	8Ω	97dB	50-10,000Hz	45mm/1.75in	3.8kg/8.4lb

NEW

**TF1830**

**18-inch pressed steel  
chassis, ferrite magnet  
subwoofer**

**GENERAL SPECIFICATIONS**

Nominal diameter .....	457mm/18in
Power rating <sup>1</sup> .....	500Wrms
Continuous power rating <sup>2</sup> .....	1000W
EIA power rating <sup>3</sup> .....	650W
Nominal impedance .....	4Ω
Sensitivity <sup>4</sup> .....	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 fibre
Cone material .....	Glass loaded paper with weather resistant impregnation
Surround material .....	Cloth sealed
Suspension .....	Single
Xmax <sup>5</sup> .....	4.5mm/0.18in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	17mm/0.67in

**SMALL SIGNAL PARAMETERS<sup>6</sup>**

Sd .....	1134.12cm <sup>2</sup> /175.79in <sup>2</sup>
Fs .....	35.7Hz
Mms .....	179.11g/6.32oz
Qms .....	4.213
Qes .....	0.434
Qts .....	0.393
Re .....	2.58Ω
Vas .....	202.4l/7.15ft <sup>3</sup>
Bl .....	15.46Tm
Cms .....	0.11mm/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 .....	443.4mm/17.46in
Unit weight .....	7.5kg/16.5lb

**PACKED DIMENSIONS & WEIGHT**

Single pack size (WxDxH) .....	500mm x 500mm x 255mm 19.7in x 19.7in x 11in
Single pack weight .....	9kg/19.8lb
Multi pack qty .....	24
Multi pack size (WxDxH) .....	1200mm x 1000mm x 980mm 47.2in x 39.4in x 38.5in
Multi pack weight .....	205kg/452lb

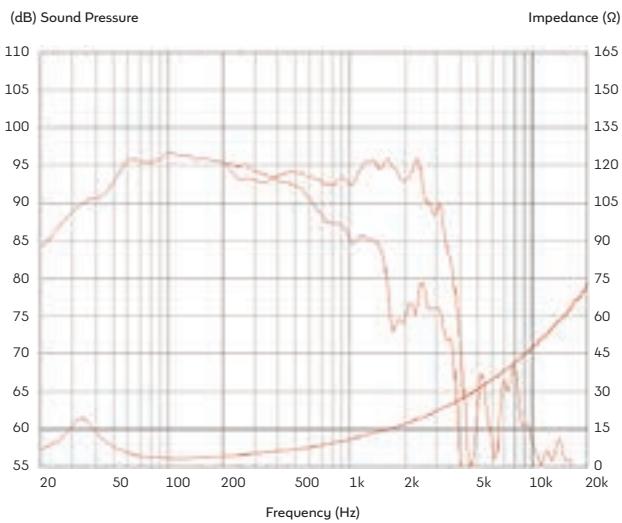


**500Wrms**  
(AES standard)  
power rating

**96dB**  
sensitivity

**3-inch**  
round copper  
voice coil

- Balanced Airflow Venting provides enhanced cooling
- Multi-layer voice coil
- Compact, high flux, Dual Magnet Motor design

**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-426-A standard

4. Measured on axis at 1W, 1m in 2n 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 bass/mid driver**



**350Wrms**

(AES standard)  
power rating

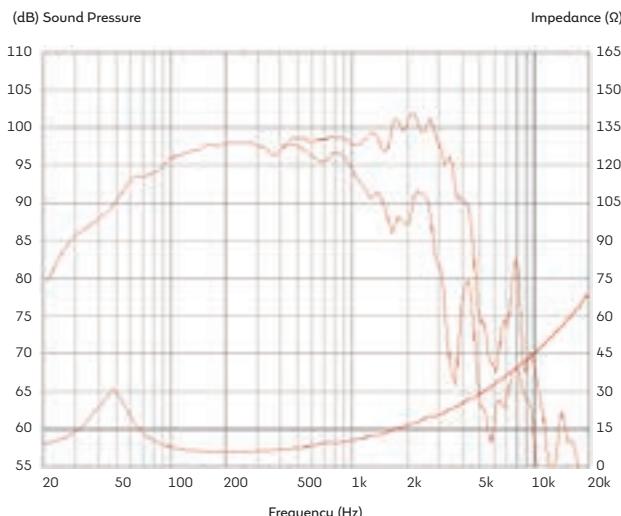
**98dB**

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



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-426-A standard
4. Measured on axis at 1W, 1m in 2n 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

### GENERAL SPECIFICATIONS

Nominal diameter .....	381mm/15in
Power rating <sup>1</sup> .....	350Wrms
Continuous power rating <sup>2</sup> .....	700W
EIA power rating <sup>3</sup> .....	500W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	98dB
Frequency range .....	40-3,000Hz
Chassis type .....	Pressed Steel
Magnet type .....	Ferrite
Magnet weight .....	1.7kg/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
Xmax <sup>5</sup> .....	4mm/0.16in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	16mm/0.63in

### SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	855.3cm <sup>2</sup> /132.57in <sup>2</sup>
Fs .....	46.2Hz
Mms .....	87.7g/3.09oz
Qms .....	3.060
Qes .....	0.446
Qts .....	0.389
Re .....	5.07Ω
Vas .....	140.08l/4.95ft <sup>3</sup>
Bl .....	17.01Tm
Cms .....	0.14mm/N
Rms .....	8.32kg/s
Le (at 1kHz) .....	0.99mH

### MOUNTING INFORMATION

Overall diameter .....	385mm/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 .....	8
Mounting PCD range .....	369mm/14.57in
Unit weight .....	5kg/11lb

### PACKED DIMENSIONS & WEIGHT

Multi pack qty .....	45
Multi pack size (WxDxH) .....	1200mm x 1000mm x 980mm 47.2in x 39.4in x 38.6in
Multi pack weight .....	265kg/585lb

# TF1530e

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



## GENERAL SPECIFICATIONS

Nominal diameter .....	381mm/15in
Power rating <sup>1</sup> .....	400Wrms
Continuous power rating <sup>2</sup> .....	800W
EIA power rating <sup>3</sup> .....	550W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	98dB
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 .....	Edgewound copper clad aluminium
Former material .....	Glass fibre
Cone material .....	Kevlar loaded paper
Surround material .....	Cloth sealed
Suspension .....	Single
Xmax <sup>5</sup> .....	4.5mm/0.18in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	17mm/0.67in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	855.3cm <sup>2</sup> /132.57in <sup>2</sup>
Fs .....	43.6Hz
Mms .....	71.94g/2.54oz
Qms .....	2.757
Qes .....	0.373
Qts .....	0.328
Re .....	5.48Ω
Vas .....	191.62l/6.77ft <sup>3</sup>
Bl .....	17.03Tm
Cms .....	0.19mm/N
Rms .....	7.15kg/s
Le (at 1kHz) .....	0.79mH

## MOUNTING INFORMATION

Overall diameter .....	385mm/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 .....	8
Mounting PCD range .....	369mm/14.57in
Unit weight .....	6.5kg/14.3lb

## PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	410mm x 410mm x 180mm 16.1in x 16.1in x 7.1in
Single pack weight .....	6.8kg/15lb
Multi pack qty .....	45
Multi pack size (WxDxH) .....	1200mm x 1000mm x 980mm 47.2in x 39.4in x 38.6in
Multi pack weight .....	325kg/715lb

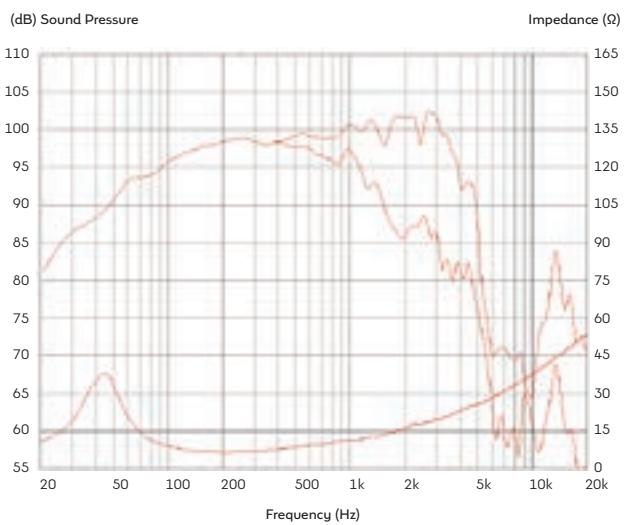


**400Wrms**  
(AES standard)  
power rating

**98dB**  
sensitivity

**3-inch**  
edgewound copper  
clad aluminium  
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.

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 2n 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

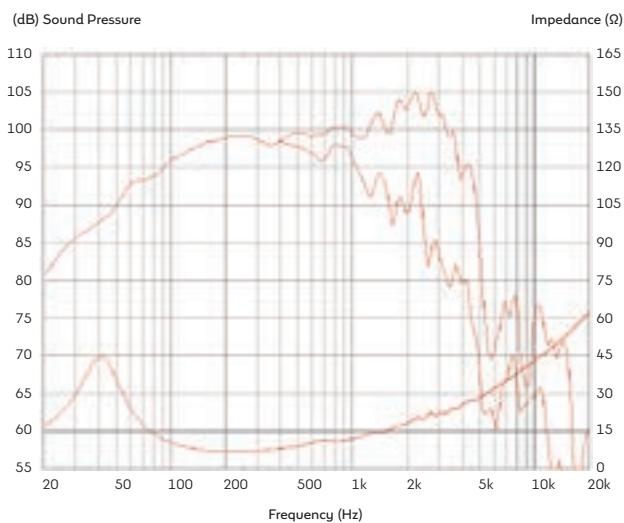
**15-inch pressed steel chassis, ferrite magnet bass/mid driver**



**400Wrms**  
(AES standard)  
power rating

**99dB**  
sensitivity  
**3-inch**  
round copper  
voice coil

### FREQUENCY RESPONSE AND IMPEDANCE CURVES



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

- 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.
- Continuous Power Rating is defined as 3dB greater than the AES rating.
- Tested as per the EIA-426-A standard
- Measured on axis at 1W, 1m in 2n anechoic environment.
- Xmax derived from: (voice coil winding width-gap depth)/2.
- Small signal parameters measured after unit subjected to pre-conditioning signal.

Also available in 4Ω, data available on request

### GENERAL SPECIFICATIONS

Nominal diameter .....	381mm/15in
Power rating <sup>1</sup> .....	400Wrms
Continuous power rating <sup>2</sup> .....	800W
EIA power rating <sup>3</sup> .....	550W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	99dB
Frequency range .....	40-3,000Hz
Chassis type .....	Pressed Steel
Magnet type .....	Ferrite
Magnet weight .....	2.44kg/86oz
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 <sup>5</sup> .....	2mm/0.08in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	12mm/0.47in

### SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	855.3cm <sup>2</sup> /132.57in <sup>2</sup>
Fs .....	42Hz
Mms .....	91.65g/3.23oz
Qms .....	2.728
Qes .....	0.313
Qts .....	0.281
Re .....	5.82Ω
Vas .....	162.2l/5.73ft <sup>3</sup>
Bl .....	21.22Tm
Cms .....	0.16mm/N
Rms .....	8.87kg/s
Le (at 1kHz) .....	0.96mH

### MOUNTING INFORMATION

Overall diameter .....	385mm/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 .....	369mm/14.56in
Unit weight .....	6.9kg/15.2lb

### PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	410mm x 410mm x 180mm 16.1in x 16.1in x 7.1in
Single pack weight .....	8kg/17.6lb
Multi pack qty .....	45
Multi pack size (WxDxH) .....	1200mm x 1000mm x 980mm 47.2in x 39.4in x 38.6in
Multi pack weight .....	345kg/760lb

# TF1525e

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



## GENERAL SPECIFICATIONS

Nominal diameter .....	381mm/15in
Power rating <sup>1</sup> .....	300Wrms
Continuous power rating <sup>2</sup> .....	600W
EIA power rating <sup>3</sup> .....	450W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	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 <sup>5</sup> .....	3.5mm/0.14in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	14.5mm/0.57in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	855.3cm <sup>2</sup> /132.57in <sup>2</sup>
Fs .....	47.5Hz
Mms .....	82.07g/2.89oz
Qms .....	4.486
Qes .....	0.529
Qts .....	0.473
Re .....	6.82Ω
Vas .....	141.77l/5.01ft <sup>3</sup>
Bl .....	17.78Tm
Cms .....	0.14mm/N
Rms .....	5.46kg/s
Le (at 1kHz) .....	1.31mH

## MOUNTING INFORMATION

Overall diameter .....	385mm/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 .....	369mm/14.56in
Unit weight .....	4.8kg/10.6lb

## PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	410mm x 410mm x 180mm 16.1in x 16.1in x 7.1in
Single pack weight .....	5.5kg/12.1lb
Multi pack qty .....	45
Multi pack size (WxDxH) .....	1200mm x 1000mm x 980mm 47.2in x 39.4in x 38.6in
Multi pack weight .....	245kg/515lb

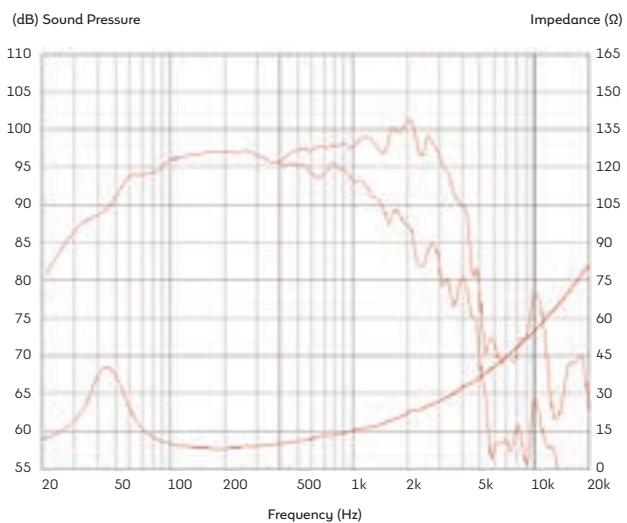


**300Wrms**  
(AES standard)  
power rating

**97dB**  
sensitivity

**2.5-inch**  
edgewound 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.

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 2n 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



## TF1525

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



**250Wrms**

(AES standard)  
power rating

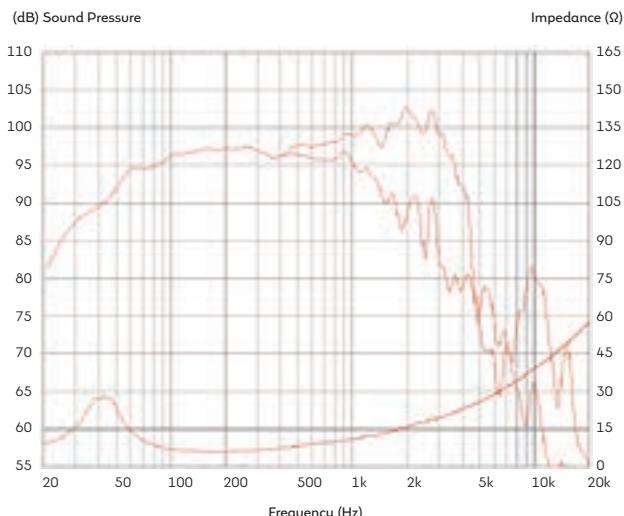
**98dB**

sensitivity

**2.5-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.

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 2n 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.

### GENERAL SPECIFICATIONS

Nominal diameter .....	381mm/15in
Power rating <sup>1</sup> .....	250Wrms
Continuous power rating <sup>2</sup> .....	500W
EIA power rating <sup>3</sup> .....	400W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	98dB
Frequency range .....	40-3,000Hz
Chassis type .....	Pressed Steel
Magnet type .....	Ferrite
Magnet weight .....	1.2kg/4.2oz
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 <sup>5</sup> .....	2.5mm/0.1in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	13mm/0.51in

### SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	855.3cm <sup>2</sup> /132.57in <sup>2</sup>
Fs .....	47.6Hz
Mms .....	77.93g/2.75oz
Qms .....	3.835
Qes .....	0.565
Qts .....	0.493
Re .....	5.15Ω
Vas .....	148.41l/5.24ft <sup>3</sup>
Bl .....	14.57Tm
Cms .....	0.14mm/N
Rms .....	6.08kg/s
Le (at 1kHz) .....	0.9mH

### MOUNTING INFORMATION

Overall diameter .....	385mm/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 16.1in x 16.1in x 7.1in
Single pack weight .....	6kg/13.2lb
Multi pack qty .....	45
Multi pack size (WxDxH) .....	1200mm x 1000mm x 980mm 47.2in x 39.4in x 38.6in
Multi pack weight .....	270kg/595lb

# TF1520

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



## GENERAL SPECIFICATIONS

Nominal diameter .....	381mm/15in
Power rating <sup>1</sup> .....	150Wrms
Continuous power rating <sup>2</sup> .....	300W
EIA power rating <sup>3</sup> .....	250W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	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
Xmax <sup>5</sup> .....	3mm/0.12in
Gap depth .....	8mm/0.24in
Voice coil winding width .....	14.5mm/0.57in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	855.3cm <sup>2</sup> /132.57in <sup>2</sup>
Fs .....	54.9Hz
Mms .....	65.49g/2.31oz
Qms .....	5.165
Qes .....	0.84
Qts .....	0.723
Re .....	5.79Ω
Vas .....	132.981/4.7ft <sup>3</sup>
Bl .....	12.48Tm
Cms .....	0.13mm/N
Rms .....	4.37kg/s
Le (at 1kHz) .....	0.8mH

## 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 16.1in x 16.1in x 7.1in
Single pack weight .....	5.5kg/12.1lb
Multi pack qty .....	4
Multi pack size (WxDxH) .....	750mm x 340mm x 440mm 29.5in x 13.4in x 17.3in
Multi pack weight .....	22kg/48lb

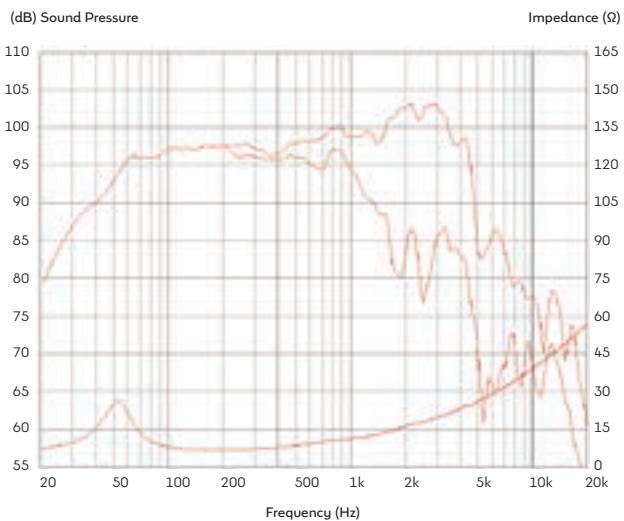


**150Wrms**  
(AES standard)  
power rating

**96dB**  
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.

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 2n 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.



## TF1230SL

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



**350Wrms**

(AES standard)  
power rating

**97dB**

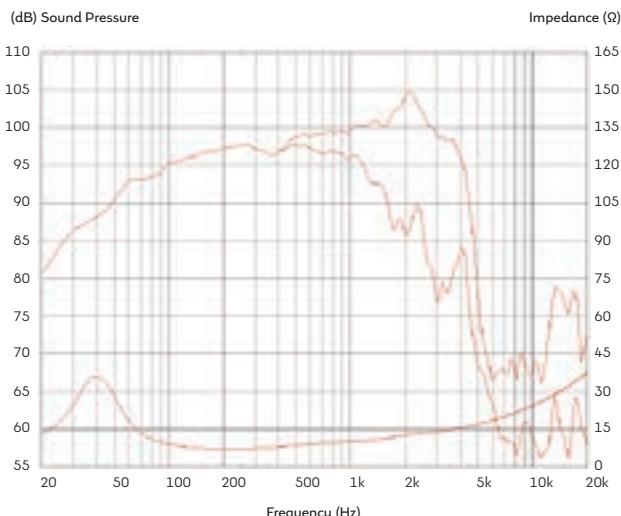
sensitivity

**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



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-426-A standard
4. Measured on axis at 1W, 1m in 2n 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

### GENERAL SPECIFICATIONS

Nominal diameter .....	305mm/12in
Power rating <sup>1</sup> .....	350Wrms
Continuous power rating <sup>2</sup> .....	700W
EIA power rating <sup>3</sup> .....	500W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	97dB
Frequency range .....	50-4,000Hz
Chassis type .....	Pressed Steel
Magnet type .....	Ferrite
Magnet weight .....	1.7kg/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
Xmax <sup>5</sup> .....	4mm/0.16in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	16mm/0.63in

### SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
Fs .....	56.8Hz
Mms .....	58.32g/2.06oz
Qms .....	3.635
Qes .....	0.437
Qts .....	0.390
Re .....	5.17Ω
Vas .....	53.761l/1.9ft <sup>3</sup>
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 .....	Ø7.9mm/0.31in
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 .....	285kg/620lb

# TF1230S

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



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

**96dB**  
sensitivity

**3-inch**  
edgewound CCA  
voice coil



## GENERAL SPECIFICATIONS

Nominal diameter .....	305mm/12in
Power rating <sup>1</sup> .....	300Wrms
Continuous power rating <sup>2</sup> .....	600W
EIA power rating <sup>3</sup> .....	450W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	96dB
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 .....	Edgewound copper clad aluminium
Former material .....	Polyimide
Cone material .....	Kevlar loaded paper
Surround material .....	Cloth sealed
Suspension .....	Single
Xmax <sup>5</sup> .....	4.5mm/0.18in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	17mm/0.67in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
Fs .....	60.3Hz
Mms .....	51.08g/1.8oz
Qms .....	3.28
Qes .....	0.422
Qts .....	0.374
Re .....	5.98Ω
Vas .....	54.41/1.92ft <sup>3</sup>
Bl .....	16.56Tm
Cms .....	0.14mm/N
Rms .....	5.91kg/s
Le (at 1kHz) .....	0.98mH

## MOUNTING INFORMATION

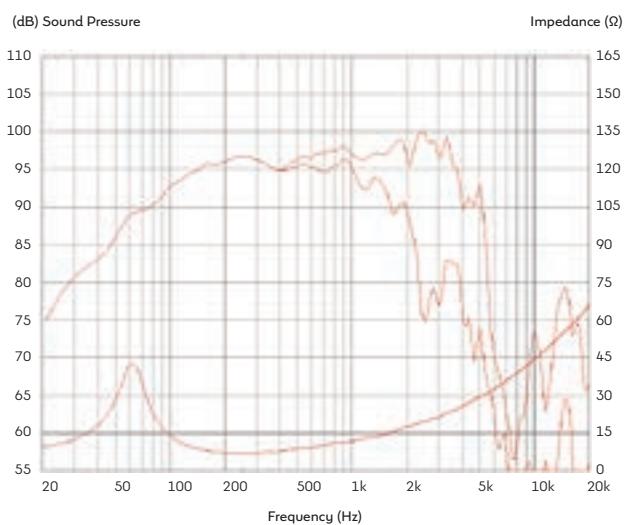
Overall diameter .....	317.5mm/12.5in
Overall depth .....	137mm/5.43in
Cut-out diameter .....	283mm/11.14in
Mounting slot dimensions ..	13mm x 6.5mm/0.51in x 0.26in
Number of mounting slots .....	8
Mounting PCD range .....	299mm/11.77in
Unit weight .....	4.3kg/9.5lb

## PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	330mm x 330mm x 150mm 13in x 13in x 5.9in
Single pack weight .....	5kg/11lb



**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-426-A standard

4. Measured on axis at 1W, 1m in 2n 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**



**350Wrms**

(AES standard)  
power rating

**94dB**

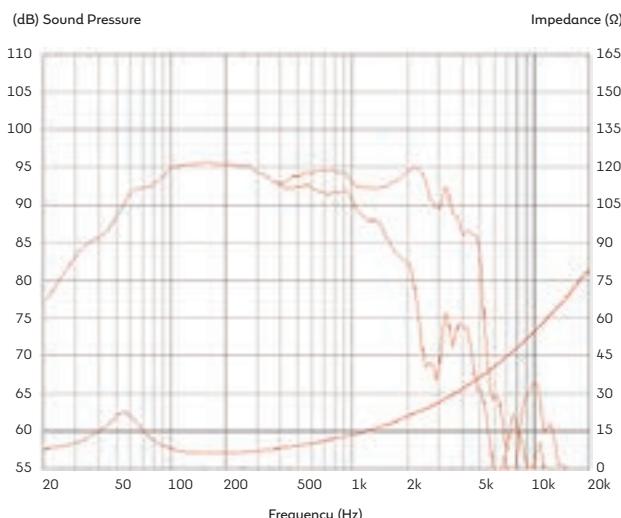
sensitivity

**3-inch**

round copper  
voice coil

- Airflow vented magnet assembly for dynamic heat dispersion

## FREQUENCY RESPONSE AND IMPEDANCE CURVES



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-426-A standard

4. Measured on axis at 1W, 1m in 2n 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.

## GENERAL SPECIFICATIONS

Nominal diameter .....	305mm/12in
Power rating <sup>1</sup> .....	350Wrms
Continuous power rating <sup>2</sup> .....	700W
EIA power rating <sup>3</sup> .....	500W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	94dB
Frequency range .....	45-3,000Hz
Chassis type .....	Pressed Steel
Magnet type .....	Ferrite
Magnet weight .....	1.4kg/4.8oz
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 <sup>5</sup> .....	5mm/0.19in
Gap depth .....	8mm/0.24in
Voice coil winding width .....	17.5mm/0.69in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
Fs .....	59Hz
Mms .....	56.86g/2.01oz
Qms .....	2.449
Qes .....	0.652
Qts .....	0.515
Re .....	5.19Ω
Vas .....	51.121L/1.81ft <sup>3</sup>
Bl .....	12.96Tm
Cms .....	0.13mm/N
Rms .....	8.6kg/s
Le (at 1kHz) .....	1.31mH

## MOUNTING INFORMATION

Overall diameter .....	309mm/12.17in
Overall depth .....	140mm/5.5in
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 .....	4.3kg/9.46lb

## PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	330mm x 330mm x 150mm 13in x 13in x 5.9in
Single pack weight .....	5kg/11lb
Multi pack qty .....	60
Multi pack size (WxDxH) .....	1080mm x 980mm x 880mm 42.5in x 38.6in x 34.6in
Multi pack weight .....	285kg/620lb

## TF1225e

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



### GENERAL SPECIFICATIONS

Nominal diameter .....	305mm/12in
Power rating <sup>1</sup> .....	300Wrms
Continuous power rating <sup>2</sup> .....	600W
EIA power rating <sup>3</sup> .....	450W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	96dB
Frequency range .....	50-3,000Hz
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 <sup>5</sup> .....	3.5mm/0.14in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	14.5mm/0.57in

### SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
Fs .....	52.6Hz
Mms .....	54.01g/1.91oz
Qms .....	3.513
Qes .....	0.368
Qts .....	0.333
Re .....	6.42Ω
Vas .....	67.71l/2.39ft <sup>3</sup>
Bl .....	17.66Tm
Cms .....	0.17mm/N
Rms .....	5.08kg/s
Le (at 1kHz) .....	1.32mH

### MOUNTING INFORMATION

Overall diameter .....	309mm/12.17in
Overall depth .....	139mm/5.47in
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 .....	4.4kg/9.7lb

### PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	330mm x 330mm x 150mm 13in x 13in x 5.9in
Single pack weight .....	5kg/11lb
Multi pack qty .....	60
Multi pack size (WxDxH) .....	1080mm x 980mm x 880mm 42.5in x 38.6in x 34.6in
Multi pack weight .....	290kg/638lb

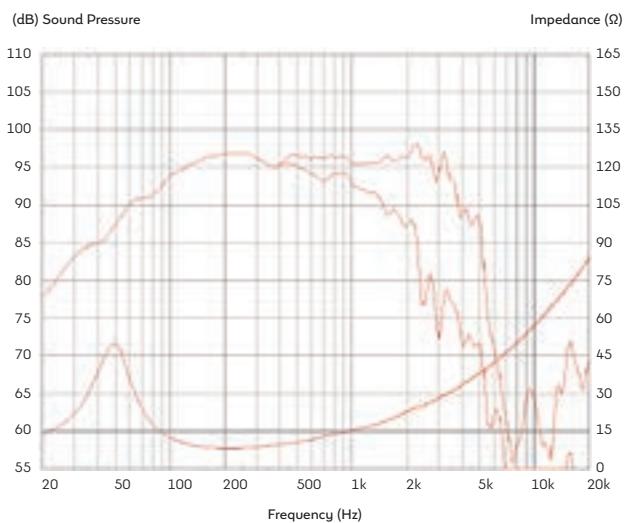


**300Wrms**  
(AES standard)  
power rating

**96dB**  
sensitivity

**2.5-inch**  
edgewound 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. 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 2n 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.



## TF1225

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



**250Wrms**

(AES standard)  
power rating

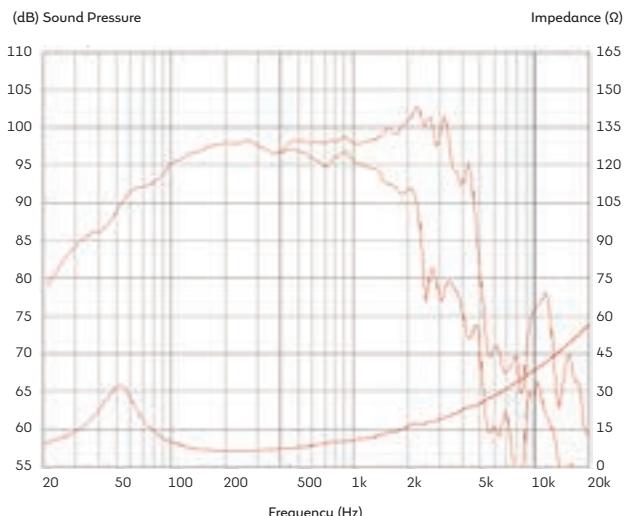
**97dB**

sensitivity

**2.5-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.  
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 2n 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

### GENERAL SPECIFICATIONS

Nominal diameter .....	305mm/12in
Power rating <sup>1</sup> .....	250Wrms
Continuous power rating <sup>2</sup> .....	500W
EIA power rating <sup>3</sup> .....	400W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	97dB
Frequency range .....	50-4,000Hz
Chassis type .....	Pressed Steel
Magnet type .....	Ferrite
Magnet weight .....	1.2kg/4.2oz
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 <sup>5</sup> .....	2.5mm/0.1in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	13mm/0.51in

### SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
Fs .....	55.6Hz
Mms .....	48.52g/1.71oz
Qms .....	3.112
Qes .....	0.42
Qts .....	0.37
Re .....	5.08Ω
Vas .....	67.27l/2.38ft <sup>3</sup>
Bl .....	14.32Tm
Cms .....	0.17mm/N
Rms .....	5.45kg/s
Le (at 1kHz) .....	0.86mH

### MOUNTING INFORMATION

Overall diameter .....	309mm/12.17in
Overall depth .....	130mm/5.12in
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 .....	4.1kg/9lb

### PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	330mm x 330mm x 150mm 13in x 13in x 5.9in
Single pack weight .....	4.6kg/10.1lb
Multi pack qty .....	60
Multi pack size (WxDxH) .....	1080mm x 980mm x 880mm 42.5in x 38.6in x 34.6in
Multi pack weight .....	280kg/615lb

# TF1220

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



## GENERAL SPECIFICATIONS

Nominal diameter .....	305mm/12in
Power rating <sup>1</sup> .....	150Wrms
Continuous power rating <sup>2</sup> .....	300W
EIA power rating <sup>3</sup> .....	250W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	97dB
Frequency range .....	60-4,000Hz
Chassis type .....	Pressed Steel
Magnet type .....	Ferrite
Magnet weight .....	1.2kg/4.2oz
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 <sup>5</sup> .....	2mm/0.08in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	12mm/0.47in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
Fs .....	55.8Hz
Mms .....	44.51g/1.57oz
Qms .....	3.327
Qes .....	0.441
Qts .....	0.389
Re .....	5.46Ω
Vas .....	72.79l/2.57ft <sup>3</sup>
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 .....	ø7.9mm/0.31in
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 13in x 13in x 5.9in
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

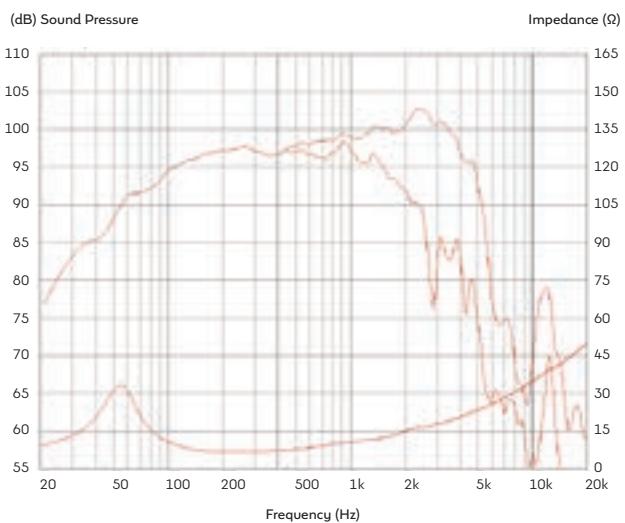


**150Wrms**  
(AES standard)  
power rating

**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.  
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 2n 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.



## TF1218

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



**100Wrms**

(AES standard)  
power rating

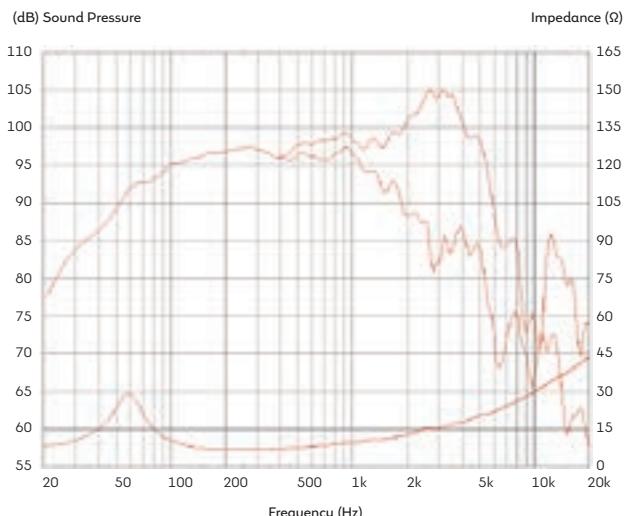
**97dB**

sensitivity

**1.75-inch**

round copper  
voice coil

### 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-426-A standard

4. Measured on axis at 1W, 1m in 2n 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.

### GENERAL SPECIFICATIONS

Nominal diameter .....	305mm/12in
Power rating <sup>1</sup> .....	100Wrms
Continuous power rating <sup>2</sup> .....	200W
EIA power rating <sup>3</sup> .....	150W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	97dB
Frequency range .....	60-4,500Hz
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 <sup>5</sup> .....	2mm/0.08in
Gap depth .....	6mm/0.24in
Voice coil winding width .....	10mm/0.39in

### SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
Fs .....	59Hz
Mms .....	35g/1.23oz
Qms .....	3.344
Qes .....	0.609
Qts .....	0.516
Re .....	5.93Ω
Vas .....	83.04l/2.93ft <sup>3</sup>
Bl .....	11.23Tm
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 .....	283mm/11.14in
Mounting slot dimensions .....	Ø7.9mm/0.31in
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 13in x 13in x 5.9in
Single pack weight .....	3.5kg/7.7lb
Multi pack qty .....	60
Multi pack size (WxDxH) .....	1080mm x 980mm x 880mm 42.5in x 38.6in x 34.6in
Multi pack weight .....	195kg/430lb

# TF1020

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



## GENERAL SPECIFICATIONS

Nominal diameter .....	254mm/10in
Power rating <sup>1</sup> .....	150Wrms
Continuous power rating <sup>2</sup> .....	300W
EIA power rating <sup>3</sup> .....	250W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	97dB
Frequency range .....	60-3,000Hz
Chassis type .....	Pressed Steel
Magnet type .....	Ferrite
Magnet weight .....	1.2kg/4.2oz
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 <sup>5</sup> .....	2mm/0.08in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	12mm/0.47in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	346.36cm <sup>2</sup> /53.69in <sup>2</sup>
Fs .....	69.4Hz
Mms .....	31.1g/1.1oz
Qms .....	2.454
Qes .....	0.372
Qts .....	0.323
Re .....	5.45Ω
Vas .....	28.75l/1.02ft <sup>3</sup>
Bl .....	14.1Tm
Cms .....	0.17mm/N
Rms .....	5.52kg/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 6mm/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 11in x 11in x 4.7in
Single pack weight .....	4.2kg/9.2lb
Multi pack qty .....	96
Multi pack size (WxDxH) .....	1080mm x 880mm x 840mm 42.5in x 34.6in x 33.1in
Multi pack weight .....	390kg/860lb

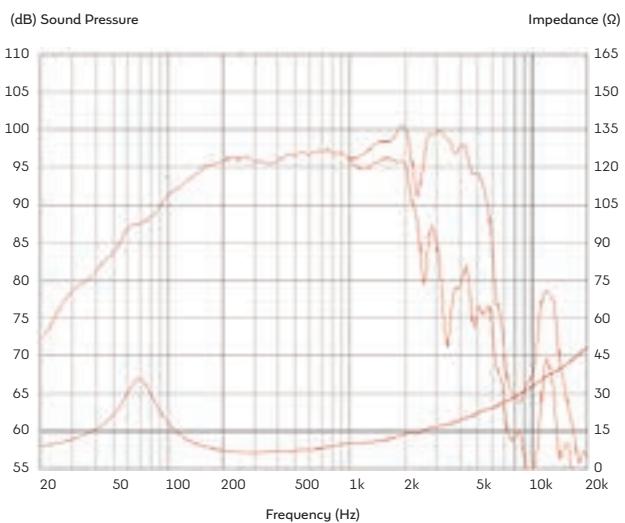


**150Wrms**  
(AES standard)  
power rating

**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.  
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 2n 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



## TF1018

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



**100Wrms**

(AES standard)  
power rating

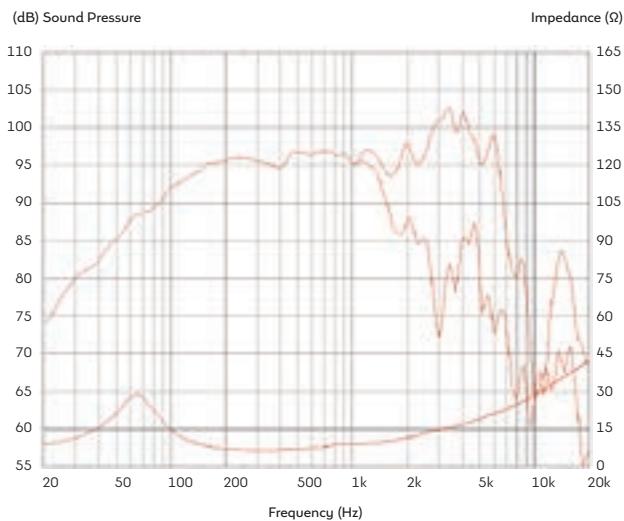
**96dB**

sensitivity

**1.75-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.

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 2n 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.

### GENERAL SPECIFICATIONS

Nominal diameter .....	254mm/10in
Power rating <sup>1</sup> .....	100Wrms
Continuous power rating <sup>2</sup> .....	200W
EIA power rating <sup>3</sup> .....	150W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	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 <sup>5</sup> .....	2mm/0.08in
Gap depth .....	6mm/0.24in
Voice coil winding width .....	10mm/0.39in

### SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	346.36cm <sup>2</sup> /53.69in <sup>2</sup>
Fs .....	70.1Hz
Mms .....	25.91g/0.91oz
Qms .....	2.426
Qes .....	0.493
Qts .....	0.409
Re .....	5.48Ω
Vas .....	33.81l/1.19ft <sup>3</sup>
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 .....	8mm x 6mm/0.31in x 0.24in
Number of mounting slots .....	4
Mounting PCD range .....	245mm/9.65in
Unit weight .....	2.4kg/5.3lb

### PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	280mm x 280mm x 120mm 11in x 11in x 4.7in
Single pack weight .....	3kg/6.6lb
Multi pack qty .....	96
Multi pack size (WxDxH) .....	1080mm x 880mm x 840mm 42.5in x 34.6in x 33.1in
Multi pack weight .....	265kg/585lb

AXI HF NEO HF FERRITE HORNS COAXIAL COMPACT ARRAY DRIVER LF CAST CHASSIS NEO

LF CAST CHASSIS FERRITE LF PRESSERD CHASSIS NEO LF PRESSERD CHASSIS FERRITE

# TF0818

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



## GENERAL SPECIFICATIONS

Nominal diameter .....	203mm/8in
Power rating <sup>1</sup> .....	100Wrms
Continuous power rating <sup>2</sup> .....	200W
EIA power rating <sup>3</sup> .....	150W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	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 <sup>5</sup> .....	3.5mm/0.14in
Gap depth .....	6mm/0.24in
Voice coil winding width .....	13mm/0.51in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	226.98cm <sup>2</sup> /35.18in <sup>2</sup>
Fs .....	100Hz
Mms .....	19.57g/0.69oz
Qms .....	3.311
Qes .....	0.493
Qts .....	0.429
Re .....	6.72Ω
Vas .....	9.441l/0.33ft <sup>3</sup>
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/7.68-7.83in
Unit weight .....	2.3kg/5.1lb

## PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	230mm x 230mm x 110mm ..... 19.1in x 9.1in x 4.3in
Single pack weight .....	2.8kg/6.2lb
Multi pack qty .....	140
Multi pack size (WxDxH) .....	1070mm x 850mm x 860mm ..... 42.1in x 33.5in x 33.9in
Multi pack weight .....	350kg/770lb

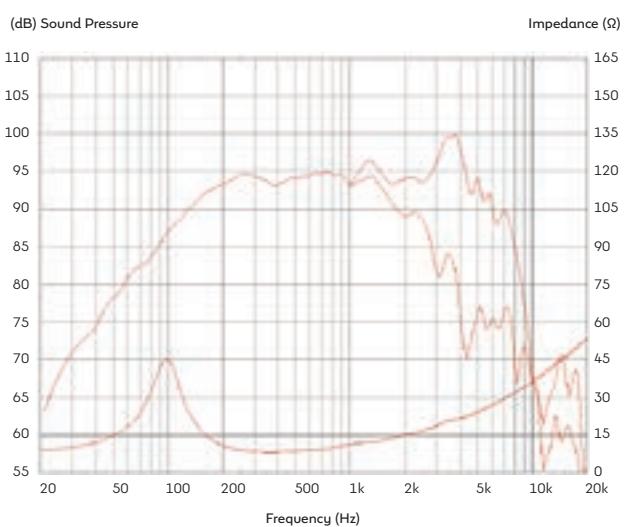


**100Wrms**  
(AES standard)  
power rating

**94dB**  
sensitivity

**1.75-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.

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 2n 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 and 16Ω, data available on request



## TF0818MR

**8-inch pressed steel  
chassis, ferrite magnet  
midrange driver**



**100Wrms**

(AES standard)  
power rating

**99dB**

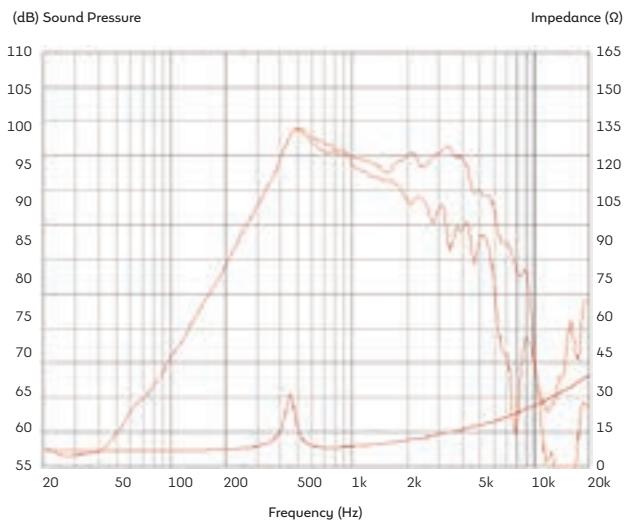
sensitivity

**1.75-inch**

round copper  
voice coil

- Closed back midrange unit

### 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-426-A standard

4. Measured on axis at 1W, 1m in 2n anechoic environment.

### GENERAL SPECIFICATIONS

Nominal diameter .....	203mm/8in
Power rating <sup>1</sup> .....	100Wrms
Continuous power rating <sup>2</sup> .....	200W
EIA power rating <sup>3</sup> .....	150W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	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
Le (at 1kHz) .....	0.31mH

### MOUNTING INFORMATION

Overall diameter .....	208mm/8.19in
Overall depth .....	85mm/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
.....	19.1in x 9.1in x 4.3in
Single pack weight .....	2.5kg/5.5lb
Multi pack qty .....	140
Multi pack size (WxDxH) .....	1070mm x 850mm x 860mm
.....	42.1in x 33.5in x 33.9in
Multi pack weight .....	300kg/660lb

# TF0615

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



## GENERAL SPECIFICATIONS

Nominal diameter .....	152mm/6in
Power rating <sup>1</sup> .....	100Wrms
Continuous power rating <sup>2</sup> .....	200W
EIA power rating <sup>3</sup> .....	150W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	94dB
Frequency range .....	85–6,000Hz
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 .....	Cloth sealed
Suspension .....	Single
Xmax <sup>5</sup> .....	2.5mm/0.1in
Gap depth .....	6mm/0.24in
Voice coil winding width .....	6.5mm/0.26in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	153.94cm <sup>2</sup> /23.86in <sup>2</sup>
Fs .....	104.7Hz
Mms .....	12.09g/0.43oz
Qms .....	3.949
Qes .....	0.719
Qts .....	0.608
Re .....	7.08Ω
Vas .....	6.411l/0.23ft <sup>3</sup>
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
Number of mounting slots .....	4
Mounting PCD range .....	168.5mm/6.63in
Unit weight .....	1.4kg/3.1lb

## PACKED DIMENSIONS & WEIGHT

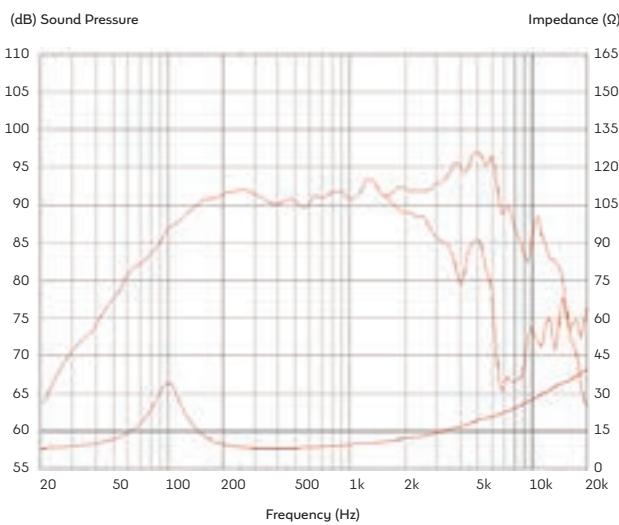
Single pack size (WxDxH) .....	190mm x 200mm x 90mm 7.5in x 7.9in x 3.5in
Single pack weight .....	2kg/4.4lb

**100Wrms**  
(AES standard)  
power rating

**94dB**  
sensitivity

**1.5-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.

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 2n 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**

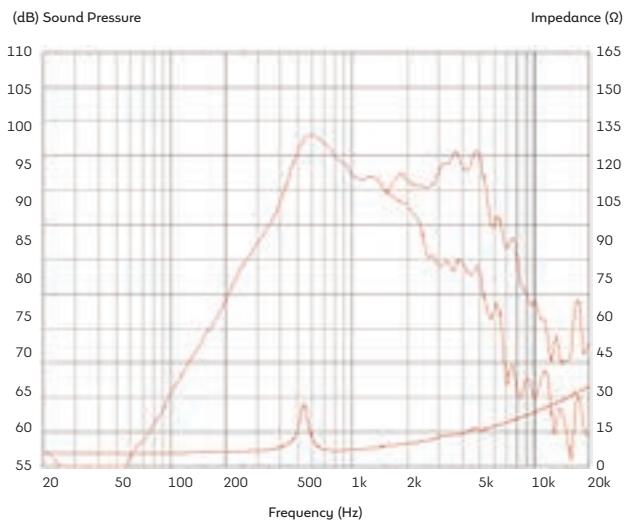
sensitivity

**1.5-inch**

round copper  
voice coil

- Closed back midrange unit

### 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-426-A standard

4. Measured on axis at 1W, 1m in 2n anechoic environment.

### GENERAL SPECIFICATIONS

Nominal diameter .....	152mm/6in
Power rating <sup>1</sup> .....	50Wrms
Continuous power rating <sup>2</sup> .....	100W
EIA power rating <sup>3</sup> .....	75W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	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
Qt .....	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/7.01in
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 7.5in x 7.9in x 3.5in
Single pack weight .....	2kg/4.4lb
Multi pack qty .....	140
Multi pack size (WxDxH) .....	1070mm x 850mm x 860mm 42.1in x 33.5in x 33.9in
Multi pack weight .....	220kg/485lb

# TF0510

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

AXI HF NEO HFFERRITE HORNS COAXIAL COMPACT ARRAY DRIVER LF CAST CHASSIS NEO

LF PRESSED CHASSIS NEO  
LF PRESSED CHASSIS FERRITE

## GENERAL SPECIFICATIONS

Nominal diameter .....	127mm/5in
Power rating <sup>1</sup> .....	30Wrms
Continuous power rating <sup>2</sup> .....	60W
EIA power rating <sup>3</sup> .....	50W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	91dB
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 <sup>5</sup> .....	1.1mm/0.04in
Gap depth .....	5mm/0.2in
Voice coil winding width .....	7.3mm/0.29in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	78.54cm <sup>2</sup> /12.17in <sup>2</sup>
Fs .....	128.1Hz
Mms .....	7.02g/0.25oz
Qms .....	2.376
Qes .....	0.768
Qts .....	0.6580
Re .....	6.32Ω
Vas .....	7.38/0.26ft <sup>3</sup>
Bl .....	6.82Tm
Cms .....	0.22mm/N
Rms .....	2.38kg/s
Le (at 1kHz) .....	0.33mH

## 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 6.7in x 7.1in x 2.8in
Single pack weight .....	1.5kg/3.3lb
Multi pack qty .....	12
Multi pack size (WxDxH) .....	320mm x 550mm x 190mm 12.6in x 21.7in x 7.5in
Multi pack weight .....	15kg/33lb

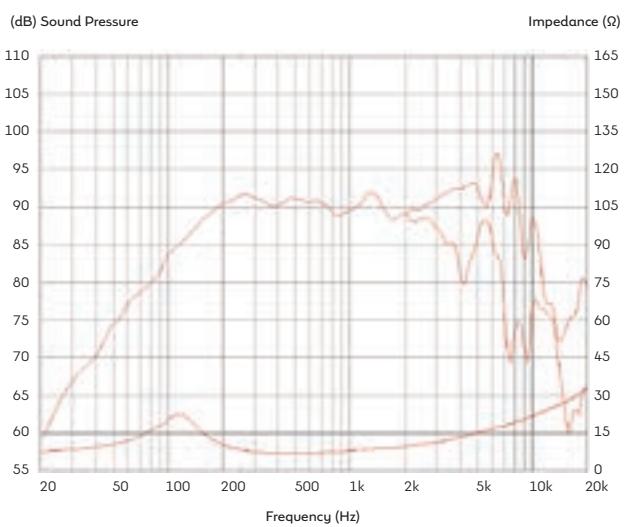


**30Wrms**  
(AES standard)  
power rating

**91dB**  
sensitivity

**1-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.  
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 2n 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.



## TF0510MR

**5-inch pressed steel  
chassis, ferrite magnet  
midrange driver**



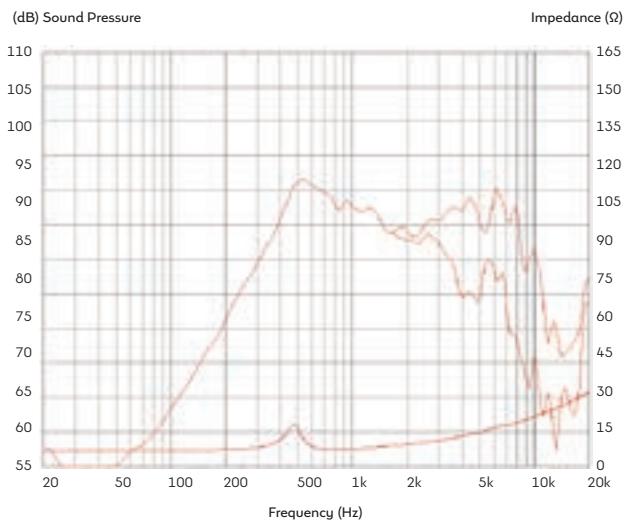
**30Wrms**  
(AES standard)  
power rating

**93dB**  
sensitivity

**1-inch**  
round copper  
voice coil

- Closed back midrange unit

### FREQUENCY RESPONSE AND IMPEDANCE CURVES



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

- 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.
- Continuous Power Rating is defined as 3dB greater than the AES rating.
- Tested as per the EIA-426-A standard
- Measured on axis at 1W, 1m in 2n anechoic environment.

### GENERAL SPECIFICATIONS

Nominal diameter .....	127mm/5in
Power rating <sup>1</sup> .....	30Wrms
Continuous power rating <sup>2</sup> .....	60W
EIA power rating <sup>3</sup> .....	50W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	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
Qt .....	n/a
Re .....	7.87Ω
Vas .....	n/a
Bl .....	n/a
Cms .....	n/a
Rms .....	n/a
Le (at 1kHz) .....	0.2mH

### 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 .....	Ø4.5mm/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 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 12.6in x 21.7in x 7.5in
Multi pack weight .....	18kg/40lb

# TF0410MR

**4-inch pressed steel  
chassis, ferrite magnet  
midrange driver**

AXI HF NEO HFFERRITE HORNS COAXIAL COMPACT ARRAY DRIVER LF CAST CHASSIS NEO LF CAST CHASSIS FERRITE LF PRESSED CHASSIS NEO

## GENERAL SPECIFICATIONS

Nominal diameter .....	100mm/4in
Power rating <sup>1</sup> .....	30Wrms
Continuous power rating <sup>2</sup> .....	60W
EIA power rating <sup>3</sup> .....	50W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	90dB
Frequency range .....	400-10,000Hz
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 .....	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 .....	ø 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 4.7in x 4.7in x 3.2in
Single pack weight .....	1.5kg/3.3lb
Multi pack qty .....	12
Multi pack size (WxDxH) .....	425mm x 280mm x 165mm 16.7in x 11in x 6.5in
Multi pack weight .....	20kg/44lb



**30Wrms**  
(AES standard)  
power rating

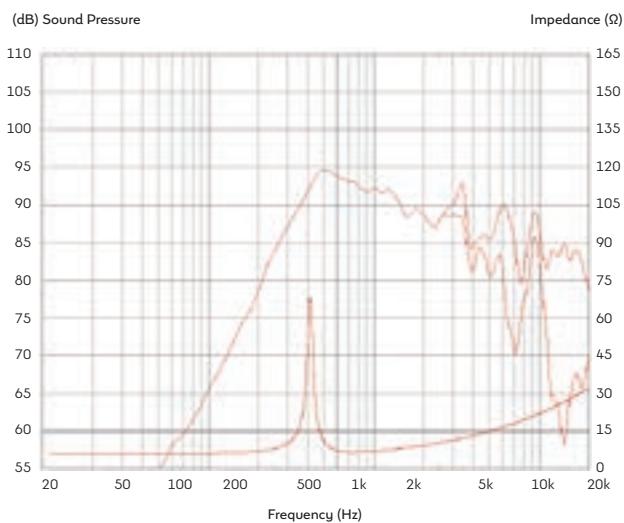


**90dB**  
sensitivity

**1-inch**  
round copper  
voice coil

- Closed back midrange unit

## 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-426-A standard

4. Measured on axis at 1W, 1m in 2n anechoic environment.



## K12H-200TC

**12-inch pressed steel chassis, ferrite magnet extended HF response driver**



**200Wrms**

(AES standard)  
power rating

**98dB**

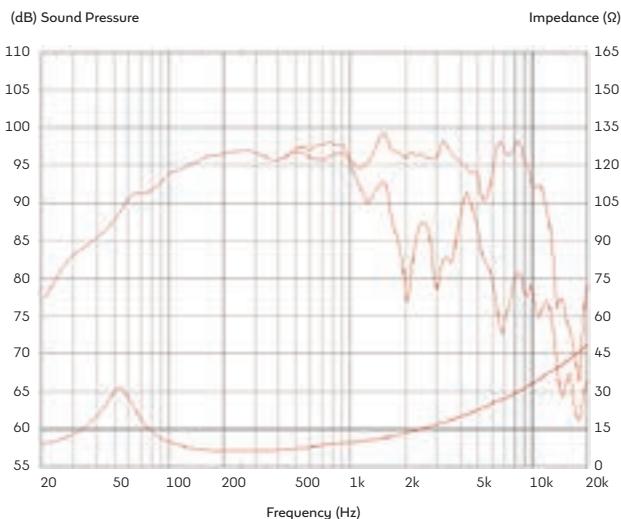
sensitivity

**2-inch**

round copper  
voice coil

- Secondary cone extends HF response to 10kHz
- Strengthened voice coil assembly for improved midband clarity

### 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-426-A standard

4. Measured on axis at 1W, 1m in 2n 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.

### GENERAL SPECIFICATIONS

Nominal diameter .....	305mm/12in
Power rating <sup>1</sup> .....	200Wrms
Continuous power rating <sup>2</sup> .....	400W
EIA power rating <sup>3</sup> .....	250W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	98dB
Frequency range .....	50-10,000Hz
Chassis type .....	Pressed Steel
Magnet type .....	Ferrite
Magnet weight .....	1.4kg/5oz
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 <sup>5</sup> .....	2mm/0.08in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	12mm/0.47in

### SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
Fs .....	62.3Hz
Mms .....	40.57g/1.43oz
Qms .....	2.804
Qes .....	0.432
Qts .....	0.374
Re .....	5.81Ω
Vas .....	64.1l/2.26ft <sup>3</sup>
Bl .....	14.63Tm
Cms .....	0.16mm/N
Rms .....	5.67kg/s
Le (at 1kHz) .....	0.63mH

### MOUNTING INFORMATION

Overall diameter .....	309mm/12.2in
Overall depth .....	130.3mm/5.14in
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 .....	3.9kg/8.6lb

### PACKED DIMENSIONS & WEIGHT

Single pack size (WxDxH) .....	333mm x 332mm x 145mm
..... 13.1in x 12.7in x 5.7in	
Single pack weight .....	5kg/11lb

# K12H-100TC

**12-inch pressed steel chassis, ferrite magnet extended HF response driver**



## GENERAL SPECIFICATIONS

Nominal diameter .....	305mm/12in
Power rating <sup>1</sup> .....	100Wrms
Continuous power rating <sup>2</sup> .....	200W
EIA power rating <sup>3</sup> .....	150W
Nominal impedance .....	8Ω
Sensitivity <sup>4</sup> .....	97dB
Frequency range .....	50-10,000Hz
Chassis type .....	Pressed Steel
Magnet type .....	Ferrite
Magnet weight .....	1.4kg/50oz
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 <sup>5</sup> .....	1mm/0.04in
Gap depth .....	8mm/0.31in
Voice coil winding width .....	10mm/0.39in

## SMALL SIGNAL PARAMETERS<sup>6</sup>

Sd .....	530.93cm <sup>2</sup> /82.29in <sup>2</sup>
Fs .....	55.6Hz
Mms .....	45.39g/1.6oz
Qms .....	2.855
Qes .....	0.473
Qts .....	0.399
Re .....	5.48Ω
Vas .....	72.04V/2.54ft <sup>3</sup>
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 13.1in x 12.7in x 5.7in
Single pack weight .....	4.8kg/10.5lb



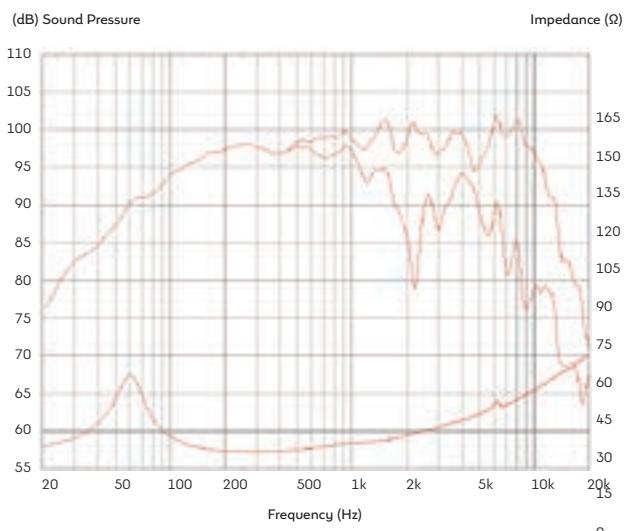
**100Wrms**  
(AES standard)  
power rating

**97dB**  
sensitivity

**1.75-inch**  
round copper  
voice coil

- Secondary cone extends HF response to 10kHz
- Strengthened voice coil assembly for improved midband clarity

## 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-426-A standard

4. Measured on axis at 1W, 1m in 2n 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.



**CELESTION**

## LF LOUDSPEAKERS

MODEL	APPLICATION	MAGNET	RMS POWER RATING	SENS.	FREQUENCY RANGE	VOICE COIL DIAMETER (mm)	VOICE COIL DIAMETER (in)	XMAX (mm)	XMAX (in)	WEIGHT (kg)	WEIGHT (lb)	PAGE
AN2075	2" ABS chassis full range driver	Neo	20W	80dB	160-19,000Hz	20	0.75	1.5	0.06	0.1	0.2	62
AN2775	2.75" ABS chassis full range driver	Neo	20W	84dB	160-20,000Hz	20	0.75	1.5	0.06	0.1	0.22	61
AF3010	3" steel chassis full range driver	Fe	35W	87dB	120-18,000Hz	25	1.0	1.5	0.06	0.58	1.3	64
AN3510	3.5" ABS chassis full range driver	Neo	35W	87dB	98-18,500Hz	25	1.0	1.25	0.04	0.16	0.35	60
TF0410MR	4" steel chassis midrange driver	Fe	30W	90dB	400-10,000Hz	25	1	n/a	n/a	1.2	2.6	138
AF4010	4" steel chassis full range driver	Fe	35W	88dB	100-18,000Hz	25	1.0	1.5	0.06	0.62	1.4	63
TF0510	5" steel chassis mid/bass driver	Fe	30W	91dB	130-8,000Hz	25	1	1.1	0.04	1.0	2.2	136
TF0510MR	5" steel chassis midrange driver	Fe	30W	93dB	400-8,000Hz	25	1	n/a	n/a	1.1	2.4	137
CN0515M	5" aluminium chassis mid-range driver	Neo	100W	98dB	200-8,000Hz	38	1.5	1.5	0.06	1.12	2.5	71
TF0615MR	6" steel chassis midrange driver	Fe	50W	97dB	500-5,000Hz	38	1.5	n/a	n/a	1.4	3.1	135
TF0615	6" steel chassis mid/bass driver	Fe	100W	95dB	85-6,000Hz	38	1.5	2.5	0.1	1.4	3.1	134
NTR06-1705B	6.5" aluminium chassis midrange driver	Neo	150W	95dB	150-7,000Hz	44	1.75	2.5	0.098	0.85	1.87	81
NTR06-1705D	6.5" aluminium chassis mid/bass driver	Neo	150W	90dB	70-7,000Hz	44	1.75	4.5	0.18	0.95	2.09	80
NTR06-17X	6.5" aluminium chassis mid/bass driver	Neo	150W	93.5dB	70-5,000Hz	44	1.75	3	0.12	1.2	2.64	79
CF0617M	6.5" aluminium chassis midrange driver	Fe	200W	96dB	300-7,000Hz	44	1.75	1.2	0.05	1.9	4.2	92
CN0617M	6.5" aluminium chassis midrange driver	Neo	200W	99dB	300-7,000Hz	44	1.75	1.2	0.05	1.1	2.4	70
TF0818MR	8" steel chassis midrange driver	Fe	100W	99dB	800-5,000Hz	44	1.75	n/a	n/a	1.9	4.2	133
TF0818	8" steel chassis mid/bass driver	Fe	100W	94dB	70-6,000Hz	44	1.75	3.5	0.14	2.3	5.1	132
TN0820	8" steel chassis mid/bass driver	Neo	150W	94dB	60-4,000Hz	50	2	2	0.08	1.3	2.9	113
FTR08-2011D	8" aluminium chassis mid/bass driver	Fe	200W	93dB	70-6,000Hz	50	2	3.5	0.137	3.65	8	107
NTR08-2011D	8" aluminium chassis mid/bass driver	Neo	200W	92dB	70-6,000Hz	50	2	4	0.16	1.52	3.34	77
NTR08-2009D	8" aluminium chassis mid/bass driver	Neo	200W	94.5dB	70-5,000Hz	50	2	4	0.16	2.8	6.16	78
CF0820BMB	8" aluminium chassis bass driver	Fe	250W	93dB	50-6,000Hz	50	2	5.25	0.21	3.1	6.8	90
CF0820M	8" aluminium chassis mid-range driver	Fe	250W	98dB	150-6,000Hz	50	2	1.5	0.06	3.4	7.5	91
TF1018	10" steel chassis mid/bass driver	Fe	100W	96dB	70-6,000Hz	44	1.75	2	0.08	2.4	5.3	131
TF1020	10" steel chassis mid/bass driver	Fe	150W	97dB	60-3,000Hz	50	2	2	0.08	3.7	8.2	130
TN1020	10" steel chassis mid/bass driver	Neo	150W	98dB	65-4,000Hz	50	2	2	0.08	1.5	3.4	112
FTR10-2055D	10" aluminium mid/bass driver	Fe	200W	93.5dB	60-4,000Hz	50	2	4	0.16	4	8.8	106
NTR10-2520D	10" aluminium chassis mid/bass driver	Neo	250W	96dB	55-3,500Hz	64	2.5	4	0.16	2.2	4.89	76
NTR10-2520E	10" aluminium chassis mid/bass driver	Neo	250W	96dB	50-3,000Hz	64	2.5	5	0.2	2.2	4.89	75
CN1025B	10" aluminium chassis mid/bass driver	Neo	250W	99dB	60-5,000Hz	64	2.5	2.1	0.08	2.96	6.5	69
CF1025C	10" aluminium chassis mid/bass driver	Fe	300W	99dB	60-5,000Hz	64	2.5	2.5	0.1	4.9	10.8	89
TF1218	12" steel chassis bass/mid driver	Fe	100W	97dB	60-4,500Hz	44	1.75	2	0.08	2.7	6.0	129
K12H-100TC	12" steel chassis extended HF driver	Fe	100W	97dB	50-10,000Hz	44	1.75	1	0.04	3.8	8.4	140
TF1220	12" steel chassis bass/mid driver	Fe	150W	97dB	60-4,000Hz	50	2	2	0.08	4.0	8.8	128
K12H-200TC	12" steel chassis extended HF driver	Fe	200W	98dB	50-10,000Hz	50	2	2	0.08	3.9	8.6	139

## LF LOUDSPEAKERS

MODEL	APPLICATION	MAGNET	RMS POWER RATING	SENS.	FREQUENCY RANGE	VOICE COIL DIAMETER (mm)	VOICE COIL DIAMETER (in)	XMAX (mm)	XMAX (in)	WEIGHT (kg)	WEIGHT (lb)	PAGE
TF1225	12" steel chassis bass/mid driver	Fe	250W	97dB	50-4,000Hz	64	2.5	2.5	0.1	4.1	9.0	127
TN1225	12" steel chassis bass/mid driver	Neo	250W	99dB	50-4,000Hz	64	2.5	2.5	0.1	2.0	4.4	111
FTR12-2565D	12" aluminium bass/mid driver	Fe	250W	95dB	55-4,000Hz	64	2.5	4	0.16	4.5	9.9	105
TF1225e	12" steel chassis bass/mid driver	Fe	300W	96dB	50-3,000Hz	64	2.5	3.5	0.14	4.4	9.7	126
TF1230S	12" steel chassis bass/mid driver	Fe	300W	96dB	50-4,000Hz	75	3	4.5	0.18	4.3	9.5	124
TF1230	12" steel chassis bass/mid driver	Fe	350W	94dB	45-3,000Hz	75	3	5	0.19	4.3	9.46	125
TF1230SL	12" steel chassis bass/mid driver	Fe	350W	97dB	50-4,000Hz	75	3	4	0.16	4.3	9.5	123
FTR12-3070C	12" aluminium bass/mid driver	Fe	350W	96dB	40-4,000Hz	75	3	3	0.12	6.3	13.9	104
NTR12-3018D	12" aluminium chassis LF driver	Neo	350W	98dB	50-4,000Hz	75	3	4	0.16	2.6	5.7	74
CF1230F	12" aluminium chassis LF driver	Fe	500W	98dB	50-3,000Hz	75	3	5.5	0.22	6.75	14.9	88
FTR12-4080DL	12" aluminium chassis LF driver	Fe	700W	88dB	20-300Hz	100	4	11.25	0.44	10.2	22.4	103
FTR12-4080HDX	12" aluminium chassis LF driver	Fe	1,000W	93dB	47-3,000Hz	100	4	8	0.32	9.6	21.1	102
TF1520	15" steel chassis bass/mid driver	Fe	150W	96dB	45-4,000Hz	50	2	3	0.12	5.0	11.0	122
TF1525	15" steel chassis bass/mid driver	Fe	250W	98dB	40-3,000Hz	64	2.5	2.5	0.1	5.2	11.5	121
TN1530	15" steel chassis bass/mid driver	Neo	250W	98dB	40-3,000Hz	75	3	3.75	0.15	2.8	6.2	110
TF1525e	15" steel chassis bass/mid driver	Fe	300W	97dB	45-3,500Hz	64	2.5	3.5	0.14	4.8	10.6	120
TF1530SL	15" steel chassis bass/mid driver	Fe	350W	98dB	40-3,000Hz	75	3	4	0.16	5.0	11.0	117
TF1530	15" steel chassis bass/mid driver	Fe	400W	99dB	40-3,000Hz	75	3	2	0.08	6.9	15.2	119
TF1530e	15" steel chassis bass/mid driver	Fe	400W	98dB	40-3,000Hz	75	3	4.5	0.18	6.5	14.3	118
FTR15-3070C	15" aluminium chassis bass/mid driver	Fe	400W	99dB	40-4,000Hz	75	3	3	0.12	6.3	13.8	101
FTR15-3070E	15" aluminium chassis LF driver	Fe	400W	97dB	40-4,000Hz	75	3	5.5	0.22	6.4	14.1	100
NTR15-3018E	15" aluminium chassis LF driver	Neo	450W	98dB	30-3,000Hz	75	3	5	0.2	4	8.8	73
FTR15-4080F	15" aluminium chassis LF driver	Fe	600W	97dB	35-3,000Hz	100	4	6	0.24	9.4	20.7	99
FTR15-4080FD	15" aluminium chassis LF driver	Fe	1,000W	97dB	35-2,500Hz	100	4	6	0.24	9.5	20.9	98
FTR15-4080HDX	15" aluminium chassis LF driver	Fe	1,000W	96dB	40-2,500Hz	100	4	8	0.33	9.7	21.3	97
CF1540HD	15" aluminium chassis LF driver	Fe	1,200W	97dB	35-2,000Hz	100	4	8	0.33	11.2	24.6	87
TF1830	18" steel chassis subwoofer	Fe	500W	96dB	35-1,000Hz	75	3	4.5	0.18	7.5	16.5	116
FTR18-4080F	18" aluminium chassis LF driver	Fe	600W	97dB	30-3,000Hz	100	4	6	0.24	9.7	21.4	96
FTR18-4080FD	18" aluminium chassis LF driver	Fe	1,000W	97dB	30-2,500Hz	100	4	6	0.24	9.8	21.6	95
FTR18-4080HDX	18" aluminium chassis LF driver	Fe	1,000W	95dB	30-2,500Hz	100	4	8	0.33	9.8	21.6	94
CF1840H	18" aluminium chassis LF driver	Fe	1,000W	97dB	30-2,500Hz	100	4	8	0.31	11.6	25.5	86
CF1840JD	18" aluminium chassis LF driver	Fe	1,200W	95dB	30-2,500Hz	100	4	10	0.39	11.6	25.5	85
CF18VJD	18" aluminium chassis Subwoofer	Fe	1,600W	97dB	25-1,500Hz	125	5	9	0.35	23	50.6	84
CN1845MD	18" aluminium chassis subwoofer	Neo	1,700W	97dB	30-2,500Hz	115	4.5	13	0.51	10.5	23.2	68
NTR21-5010JD	21" aluminium chassis subwoofer	Neo	1,600W	98dB	30-3,000Hz	125	5	9	0.35	12.8	28.2	72

## HF COMPRESSION DRIVERS

MODEL	RMS POWER RATING	SENS.	VOICE COIL (mm)	VOICE COIL (in)	EXIT SIZE (mm)	EXIT SIZE (in)	DIAPHRAGM	MAGNET	FREQUENCY RANGE	MIN. CROSSOVER	WEIGHT (kg)	WEIGHT (lb)	PAGE
CDX1-1070	12W	106dB	25	1.0	25	1.0	PETP film	Fe	1,500-20,000Hz	2,200Hz	0.7	1.5	40
CDX07-1075	15W	109dB	25	1.0	19	0.75	Polyimide	Neo	1,500-18,000Hz	2,500Hz	0.16	0.35	24
CDX1-1010	15W	107dB	25	1.0	25	1.0	PETP film	Fe	1,500-20,000Hz	2,200Hz	0.8	1.8	39
CDX1-1415	20W	104dB	35	1.4	25	1.0	Aluminium	Neo	2,000-20,000Hz	2,500Hz	0.25	0.6	23
CDX1-1445/1446	20W	106dB	35	1.4	25	1.0	PETP film	Fe	1,500-20,000Hz	2,200Hz	1.0	2.2	37
CDX1-1425	25W	108dB	35	1.4	25	1.0	Aluminium	Neo	2,000-20,000Hz	2,500Hz	0.39	0.9	22
CDX1-1440	25W	106dB	35	1.4	25	1.0	Titanium	Fe	1,500-20,000Hz	2,200Hz	1.0	2.2	38
CDX1-1447	35W	106dB	35	1.4	25	1.0	Polyimide	Fe	1,500-20,000Hz	2,200Hz	1.0	2.2	36
CDX1-1730/1731	40W	110dB	44	1.75	25	1.0	PETP film	Neo	1,200-20,000Hz	2,200Hz	0.65	1.4	20
CDX1-1745/1746	40W	110dB	44	1.75	25	1.0	PETP film	Fe	1,200-20,000Hz	2,200Hz	2.3	5.1	35
CDX1-1430	50W	108dB	35	1.4	25	1.0	Aluminium	Neo	2,000-20,000Hz	2,500Hz	0.47	1	21
CDX1-1720	50W	107dB	44	1.75	25	1.0	Titanium	Neo	800-20,000Hz	1,500Hz	0.65	1.4	18
CDX1-1732	60W	110dB	44	1.75	25	1.0	Polyimide	Neo	1,000-20,000Hz	2,000Hz	0.65	1.4	19
CDX1-1740	50W	107dB	44	1.75	25	1.0	Titanium	Fe	800-20,000Hz	1,500Hz	2.3	5.1	32
CDX1-1742	50W	107dB	44	1.75	25	1.0	Polyimide	Fe	1,200-20,000Hz	2,200Hz	1.4	3.1	34
CDX1-1747/1748	60W	110dB	44	1.75	25	1.0	Polyimide	Fe	1,000-20,000Hz	2,200Hz	2.3	5.1	33
CDX14-2420	70W	106.5dB	60	2.4	35	1.4	Titanium	Neo	800-20,000Hz	1,200Hz	1.5	3.3	17
CDX14-3030	75W	106.5dB	75	3.0	35	1.4	Titanium	Fe	500-20,000Hz	1,000Hz	4.9	10.7	31
CDX14-3040	75W	106.5dB	75	3.0	35	1.4	Titanium	Neo	500-20,000Hz	1,000Hz	1.4	3.1	16
CDX14-3050	75W	106.5dB	75	3.0	35	1.4	Titanium	Neo	500-20,000Hz	1,000Hz	1.7	3.7	15
CDX14-3060	75W	106.5dB	75	3.0	35	1.4	Titanium	Fe	500-20,000Hz	1,000Hz	4.9	10.8	30
CDX20-3000	75W	107dB	75	3.0	50	2.0	Titanium	Neo	500-20,000Hz	800Hz	2	4.4	14
CDX20-3075	75W	107dB	75	3.0	50	2.0	Titanium	Fe	500-20,000Hz	800Hz	4.9	10.8	28
CDX20-3020	100W	107dB	75	3.0	50	2.0	Titanium	Fe	500-20,000Hz	800Hz	4.9	10.8	29

## COAXIAL DRIVERS

MODEL	APPLICATION	RMS POWER	SENSITIVITY	FREQUENCY RANGE	MIN. CROSSOVER	VOICE COIL (mm)	HF DISPERSION	WEIGHT (kg)	PAGE
		LF:	100W	92dB	70-4,000Hz				
TFX0512	5" steel chassis coaxial	HF:	16W	97dB	2,000-20,000Hz	2,500Hz	32 19	1.25 0.75	100°
TFX0615	6.5" steel chassis coaxial	LF:	150W	94dB	100-6,000Hz	2,200Hz	38 25	1.5 1	110°
FTX0617	6.5" aluminium chassis coaxial	HF:	40W	103dB	1,100-20,000Hz	2,200Hz	44 34	1.75 1.4	100°
FTX0820	8" aluminium chassis coaxial	LF:	200W	94dB	70-4,000Hz	2,200Hz	50 34	2 1.4	100°
FTX1025	10" aluminium chassis coaxial	HF:	40W	104dB	60-4,000Hz	2,000Hz	64 34	2.5 1.4	100°
FTX1225	12" aluminium chassis coaxial	LF:	300W	97dB	50-4,000Hz	2,000Hz	64 45	2.5 1.75	90°
TF1225CX	12" steel chassis coaxial	HF:	60W	104dB	1,000-20,000Hz				5.9
FTX1530	15" aluminium chassis coaxial	LF:	250W	97dB	50-4,000Hz	2,200Hz	64 45	2.5 1.75	80°
		HF:	40W	110dB	1,200-18,000Hz				4.6
		HF:	75W	106.5dB	40-4,000Hz	1,000Hz	75 75	3 3	10.1
				800-18,000Hz				6.5	54
							90°	14.3	48

Suggested crossover designs available online at [celestion.com/speakerworld](http://celestion.com/speakerworld)



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