Coaxial Loudspeakers

TFX0412

4-inch pressed steel chassis, ferrite magnet coaxial driver

- Ferrite magnet assembly acts as common motor for both LF and HF
- Rear-mounted compression driver with polyimide diaphragm delivers HF signal
- Ferrite magnet assembly acts as a common motor for both low and high frequency coils
- Demodulation ring for reduced distortion
- Waterproof cone coating
- 80° nominal HF coverage

200W
Continuous power rating

86dB
sensitivity

1.25in
Copper clad aluminium coil voice

1in

General Specifications

Nominal Diameter	100mm / 4in
Power Rating	100W
Continuous power rating	200W
Rated impedance	8 ohm
Sensitivity	86dB
Frequency range	90-4500Hz
Chassis type	Pressed steel
Magnet type	Ferrite
Voice coil diameter	32mm / 1.25in
Voice coil material	Copper clad aluminium
Former material	Polyimide
Cone material	Reinforced cellulose, waterproof coating
Surround material	Elastomer
Suspension	Single
Gap height (Hg)	6mm / 0.24in
VC winding height (Hvc)	11mm / 0.43in

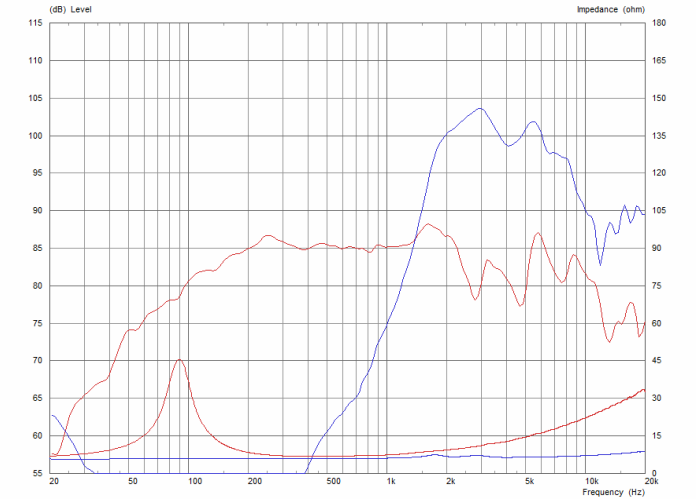
Packed Dimensions & Weight

Multi pack qty	16
Multi pack size W x D x H	470mm x 240mm x 205mm / x 18.5in 9.4in x 8.1in
Multi pack weight	35kg / 77lb

Mounting Information

Overall diameter	126mm / 4.96in
Overall depth	74.2mm / 2.9in
Cut-out diameter	102mm / 4.02in
Mounting hole dimensions	5x7mm / 0.2x0.28in
Number of mounting holes	4
Mounting hole PCD	114.4mm / 4.5in
Unit weight	0.6kg / 1.3lb

Frequency Response and Impedance Curves



Parameters

Sd	56.75cm^2 / 8.79in^2
Fs	95Hz
Mms	5.8g / 0.204oz
Qms	5.184
Qes	0.665
Qts	0.589
Re	5.6 ohm
Vas	2.18l / 0.077ft^3
Bi	5.4Tm
Cms	0.478mm/N
Rms	0.674kg/s
Le (at 1kHz)	0.34mH
Xmax	4mm / 0.16in

Additional HF Specifications

Power rating	15W
Continuous power rating	30W
Rated impedance	8 ohm
Sensitivity	107dB
Frequency range	2200-20,000Hz
Recommended min. crossover 12d B/oct	2500Hz
Voice coil diameter	25mm / 1in
Magnet type	Ferrite, common motor
Diaphragm material	Polyimide
Surround material	Polyimide

Power rating: 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.
HF power rating: 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.
Continuous power rating: Defined as 3dB greater than the AES rating.
Sensitivity: Measured on axis at 1W, 1m in 2 pi anechoic environment.
Xmax: 0.5*(Hvc-Hg) + 0.25*Hg

Celestion, Claydon Business Park, Great Blakenham, Ipswich, IP6 0NL United Kingdom