

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

General Specifications

Nominal Diameter 100 mm / 4 inPower Rating 100 WContinuous power rating 200 WRated impedance 8Ω Sensitivity 86 dB

Frequency range 90-4500Hz
Chassis type Pressed steel

Magnet type Ferrite

Voice coil diameter 32mm / 1.25in

Voice coil material Copper clad aluminiu

m . . .

Former material Polyimide

Cone material Reinforced cellulose , waterproof coating

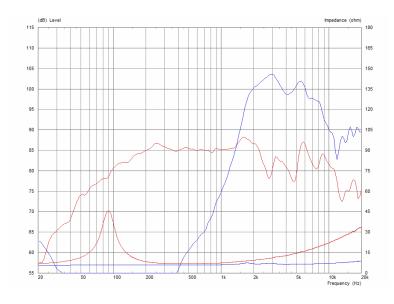
Surround material Elastomer
Suspension Single
Gap height (Hg) 6mm / 0.24in
VC winding height (Hvc) 11mm / 0.43in

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



Red: LF response curve | Blue: HF response curve

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? anechoic environment.

Xmax: 0.5*(Hvc-Hg) + 0.25*Hg

Parameters

Sd	56.75cm2 / 8.79in ²

Fs 95Hz

Mms 5.8g / 0.204oz

 $\begin{array}{ccc} \text{Qms} & & 5.184 \\ \text{Qes} & & 0.665 \\ \text{Qts} & & 0.589 \\ \text{Re} & & 5.6 \, \Omega \end{array}$

Vas 2.18I / 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

 $\begin{array}{ll} \text{Power rating} & 15\text{W} \\ \text{Continuous power rating} & 30\text{W} \\ \text{Rated impedance} & 8~\Omega \\ \text{Sensitivity} & 107\text{dB} \end{array}$

Frequency range 2200-20,000Hz

Recommended min. crossover 2500Hz

12dB/oct

Voice coil diameter 25mm / 1in

Magnet type Ferrite, common moto

r

Diaphragm material Polyimide Surround material Polyimide

Packed Dimensions & Weight

Multi pack qty 16

Multi pack size W x D x H 470mm x 240mm x 205m

m / 18.5in x 9.4in x

8.1in

Multi pack weight 35kg / 77lb

