Coaxial Loudspeakers

FTX1225

12-inch cast aluminium chassis, ferrite magnet coaxial driver

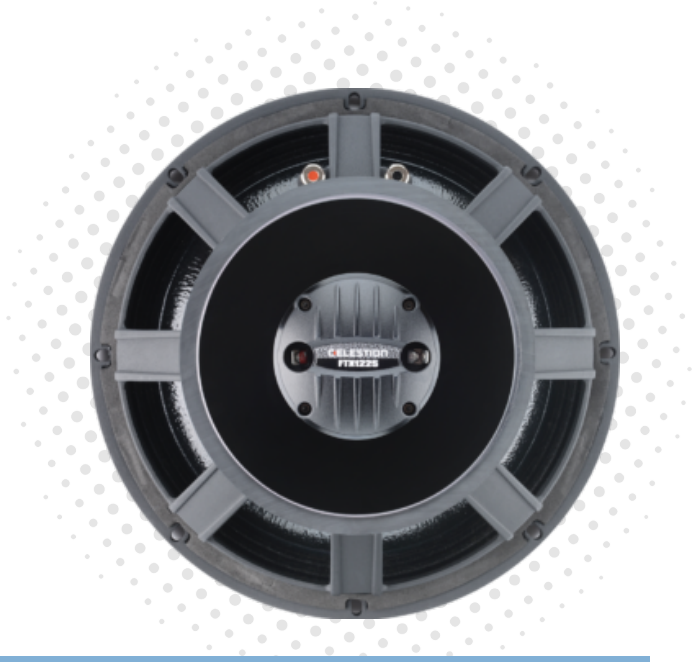
- Ferrite magnet assembly acts as common motor for both LF and HF
- Polyimide HF diaphragm
- Demodulation ring
- 90° nominal HF coverage
- HF repair kit available

600W
Continuous power rating

97dB
Sensitivity

2.5in
Edgewound copper clad aluminium voice coil

1.75in



General Specifications

Nominal Diameter	305mm / 12in
Power Rating	300W
Continuous power rating	600W
Rated impedance	8 ohm
Sensitivity	97dB
Frequency range	50-4000Hz
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
Gap height (Hg)	8mm / 0.31in
VC winding height (Hvc)	16mm / 0.63in

Parameters

Sd	530.93cm^2 / 82.29in^2
Fs	47.3Hz
Mms	53.501g / 1.89oz
Qms	4.214
Qes	0.437
Qts	0.396
Re	5.39 ohm
Vas	84.59l / 2.99ft^3
Bl	14.00Tm
Cms	0.212mm/N
Rms	3.77kg/s
Le (at 1kHz)	3.36mH
Xmax	6mm / 0.24in

Mounting Information

Overall diameter	318mm / 12.5in
Overall depth	168mm / 6.6in
Cut-out diameter	286mm / 11.26in
Mounting hole dimensions	7.5x6.5mm / 0.29x0.26in
Number of mounting holes	8
Mounting hole PCD	298-304mm / 11.70-11.97in
Unit weight	5.9kg / 13lb

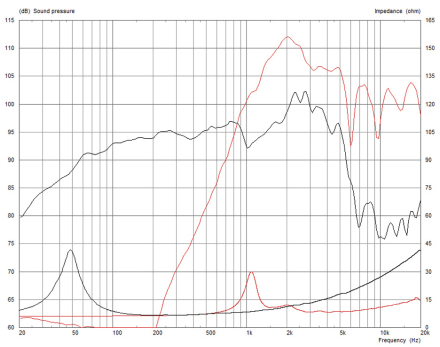
Packed Dimensions & Weight

Single pack size W x D x H	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 W x D x H	970mm x 1070mm x 850mm / 38.1in x 42.1in x 33.4in
Multi pack weight	315kg / 690lb

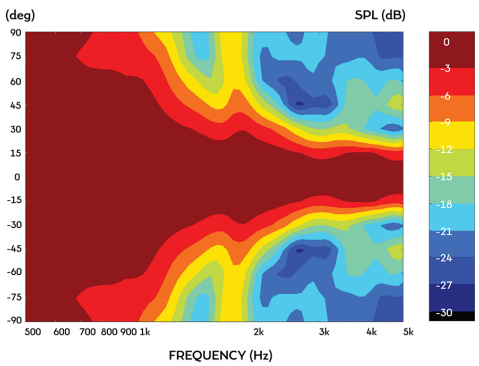
Additional HF Specifications

Power rating	60W
Continuous power rating	120W
Rated impedance	8 ohm
Sensitivity	104dB
Frequency range	1000-20,000Hz
Recommended min. crossover 12d B/oct	2000Hz
Voice coil diameter	45mm / 1.75in
Magnet type	Dual-ferrite magnet motor
Diaphragm material	Polyimide
Surround material	Polyimide

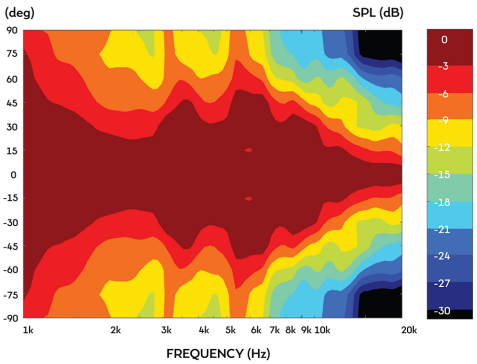
Frequency Response and Impedance Curves



LF Contour



HF Contour



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
Suggested crossover design available online at celestion.com/speakerworld

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