CELESTION

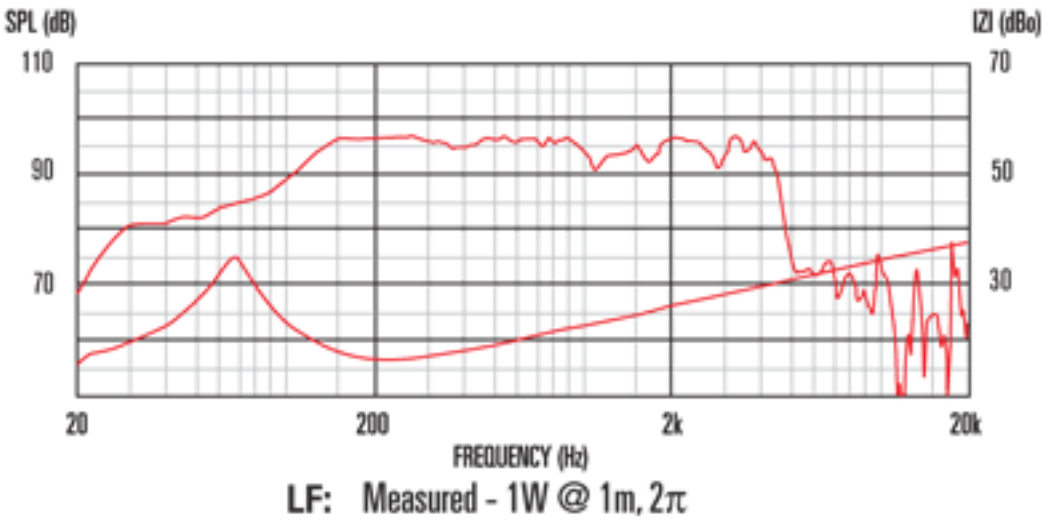
Coaxial/Twin Cone

TF1225CX

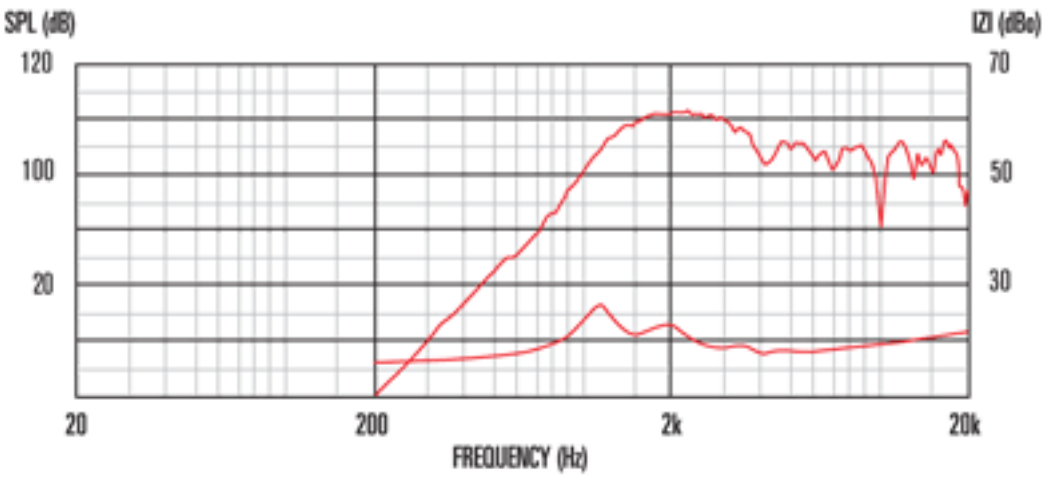
Features

- 12" coaxial loudspeaker with 40-18,000Hz response
- 250Wrms (AES standard) power handling and 97dB sensitivity
- 2.5" high temperature copper voice coil wound on polyimide for increased reliability
- Robust and reliable pressed steel frame ferrite magnet LF driver
- Compact, lightweight neodymium compression driver - 80o nominal coverage

8 Ω Frequency Response



LF: Measured - 1W @ 1m, 2π



HF: Measured - 1W @ 1m, 2π

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. Measured on axis at 1W, 1m in 2 anechoic environment.
3. Xmax derived from: (voice coil winding width-gap depth)/2.

General Specifications

Nominal diameter	305mm/12in
Power rating [1]	250Wrms
Nominal impedance	8Ω
Sensitivity [2]	97dB
Frequency range	40-4000Hz
Voice coil diameter	64mm/2.5in
Chassis type	Pressed steel
Magnet type	Ferrite
Magnet weight	1.2kg/42oz
Coil material	Round copper
Former material	Polyimide
Cone material	Kevlar loaded paper
Surround material	Cloth-sealed
Suspension	Single
Xmax	45mm/1.75in
Xmax [3]	2.5mm/0.098in
Gap depth	8mm/0.31in
Voice coil winding width	13mm/0.51in
Size	305mm/12in

Small Signal Parameters

D	0.26m/0.24in
Fs	71.4Hz
Mms	49.68g/1.75oz
Qms	3.824
Qes	0.480
Qts	0.426
Mmd	42.76g/1.51oz
Re	5.57Ω
Vas	39.91lt/1.41ft3
Bl	16.08Tm
Cms	0.10mm/N
Rms	5.83kg/s
Le (at 1kHz)	0.23mH

General Specifications: HF

Power rating¹	75Wrms
Nominal impedance	8Ω
Sensitivity²	110dB
Frequency range	1200-18,000Hz
Recommended min. crossover (12dB/oct)	2200Hz
Magnet type	Neodymium
Voice coil diameter	45mm/1.75in
Diaphragm and surround material	PETP film

Mounting Information

Diameter	309mm/12.2in
Overall depth	172mm/6.77in
Cut-out diameter	286mm/11.20in
Mounting slot dimensions	Ø7.9mm/0.31in
Number of mounting slots	4
Mounting PCD range	297mm/11.69in
Unit weight	4.6kg/10.1lb

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