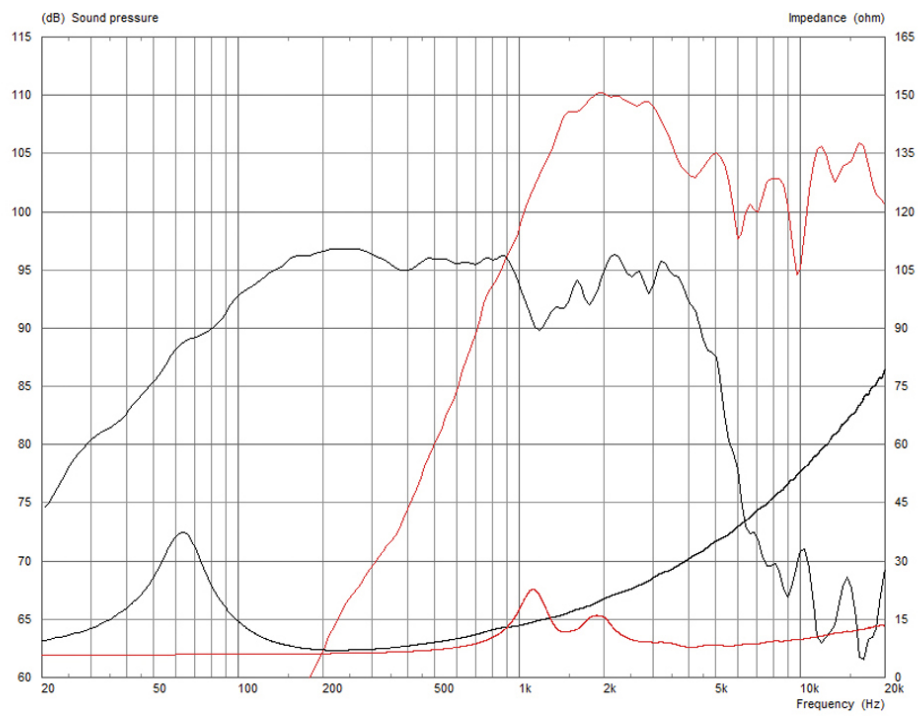
Coaxial Loudspeakers

TF1225CX

- Field replaceable PETP Film HF diaphragm
- 80° nominal HF coverage

Frequency Response and Impedance Curves



Black: LF response curve | Red: 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

Suggested crossover designs available at celestion.com/blog

General Specifications

Nominal Diameter	305mm / 12in
Power Rating	250W
Continuous power rating	500W
Rated impedance	8Ω
Sensitivity	97dB
Frequency range	40-4000Hz
Chassis type	Pressed steel
Magnet type	Ferrite
Magnet weight	1.2kg / 42oz
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	4.5mm / 0.18in
Gap height (Hg)	8mm / 0.31in
VC winding height (Hvc)	13mm / 0.51in

Mounting Information

Overall diameter	309mm / 12.2in
Overall depth	172mm / 6.8in
Cut-out diameter	286mm / 11.2in
Mounting hole dimensions	7.9mm / 0.31in
Number of mounting holes	4
Mounting hole PCD	297mm / 11.69in
Unit weight	4.6kg / 10.1lb

Parameters

Sd	530.93cm2 / 82.29in2
Fs	63.50Hz
Mms	55.59g / 1.96oz
Qms	3.119
Qes	0.405
Qts	0.358
Re	557Ω
Vas	45.12l / 1.59ft3
Bi	17.46Tm
Cms	0.11mm/N
Rms	7.11kg/s
Le (at 1kHz)	1.20mH
Xmax	4.5mm / 0.18in

Additional HF Specifications

Power rating	40W
Continuous power rating	80W
Rated impedance	8Ω
Sensitivity	110dB
Frequency range	1200-18,000Hz
Recommended min. crossover 12dB/oct	2200Hz
Voice coil diameter	45mm / 1.75in
Magnet type	Neodymium
Diaphragm material	PETP film
Surround material	PETP film

Packed Dimensions & Weight

Single pack size W x D x H	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 W x D x H	970mm x 1070mm x 850mm / 38.1in x 42.1in x 33.4in
Multi pack weight	250kg / 550lb

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