

## Coaxial Loudspeakers

### TF1225CX



## 12-inch pressed steel chassis, ferrite magnet coaxial driver

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

**500W**

Continuous  
power rating

**97dB**

sensitivity

**2.5in**

Round copper  
voice coil

**1.75in**

#### General Specifications

Nominal Diameter	305mm / 12in
Power Rating	250W
Continuous power rating	500W
Rated impedance	8 ohm
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
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	530.93cm <sup>2</sup> / 82.29in <sup>2</sup>
Fs	63.50Hz
Mms	55.59g / 1.96oz
Qms	3.119
Qes	0.405
Qts	0.358
Re	5.57 ohm
Vas	45.12l / 1.59ft <sup>3</sup>
Bl	17.46Tm
Cms	0.11mm/N
Rms	7.11kg/s
Le (at 1kHz)	1.20mH
Xmax	4.5mm / 0.18in

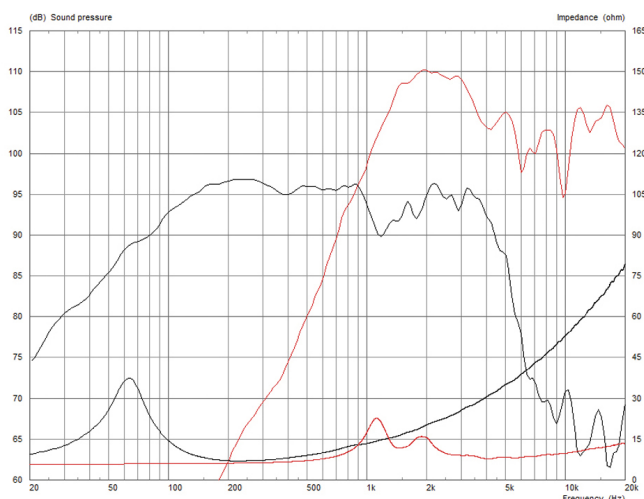
#### Additional HF Specifications

Power rating	40W
Continuous power rating	80W
Rated impedance	8 ohm
Sensitivity	110dB
Frequency range	1200-18,000Hz
Recommended min. crossover 12d	2200Hz
B/oct	
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 / x 13.9in 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

#### Frequency Response and Impedance Curves



**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

**Suggested crossover designs available at [celestion.com/blog](http://celestion.com/blog)**