

## 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                               |

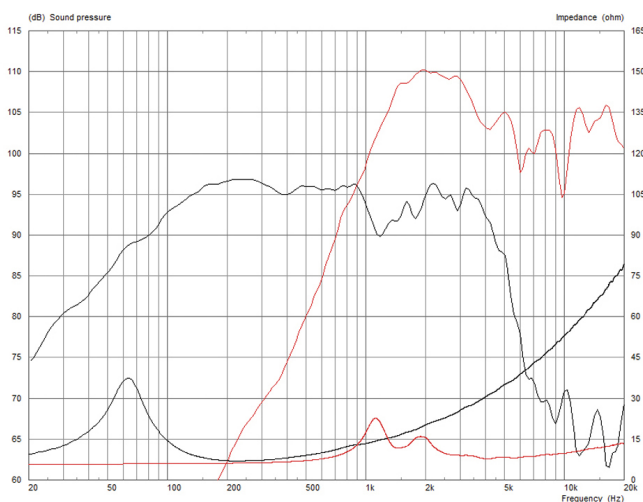
#### Additional HF Specifications

|                                |               |
|--------------------------------|---------------|
| 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<br>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 /<br>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? anechoic environment.

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

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