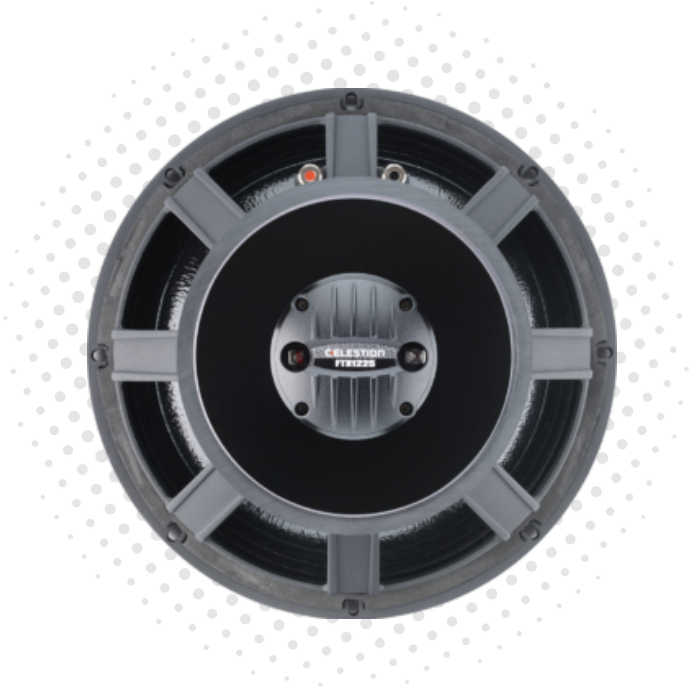
# Coaxial Loudspeakers

# 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 clad copper voice aluminium 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 |

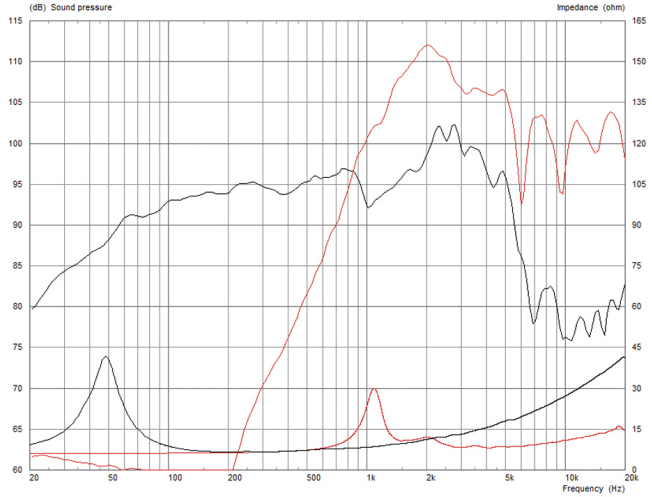
### Packed Dimensions & Weight

| | |
|---|---|
| Single pack size W x D x H | 364mm x 364mm x 189mm / x 14.3in 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 |

### 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 |

### Frequency Response and Impedance Curves




### 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 |

### 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 |

**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 design available online at** celestion.com/speakerworld

Celestion, Claydon Business Park, Great Blakenham, Ipswich, IP6 0NL United Kingdom