

Coaxial Loudspeakers

FTX0820

8-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
- 100° nominal HF coverage
- HF repair kit available

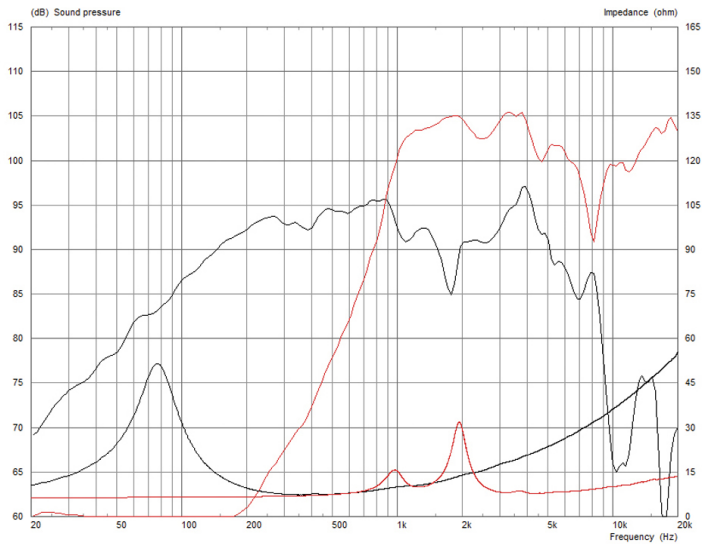
General Specifications

| | |
|-------------------------|---------------------|
| Nominal Diameter | 200mm / 8in |
| Power Rating | 200W |
| Continuous power rating | 400W |
| Rated impedance | 8 Ω |
| Sensitivity | 94dB |
| Frequency range | 70-5000Hz |
| Chassis type | Cast aluminium |
| Magnet type | Ferrite |
| Magnet weight | 1.5kg / 54oz |
| Voice coil diameter | 50mm / 2in |
| Voice coil material | Edgewound copper |
| 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) | 12mm / 0.47in |

Mounting Information

| | |
|--------------------------|-----------------------------------|
| Overall diameter | 225mm / 8.8in (octagonal profile) |
| Overall depth | 123mm / 4.8in |
| Cut-out diameter | 187mm / 7.36in |
| Mounting hole dimensions | 6.5mm / 0.26in |
| Number of mounting holes | 8 |
| Mounting hole PCD | 210mm / 8.27in |
| Unit weight | 4.1kg / 9lb |

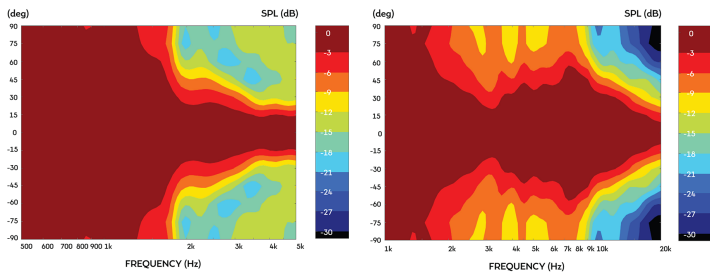
Frequency Response and Impedance Curves



Black: LF response curve | Red: HF response curve

LF Contour

HF Contour



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: $0.5 \cdot (H_{vc} - H_g) + 0.25 \cdot H_g$

Suggested crossover design available online at celestion.com/speakerworld

Parameters

| | |
|--------------|--|
| Sd | 226.98cm ² / 35.18in ² |
| Fs | 78.80Hz |
| Mms | 22.66g / 0.80oz |
| Qms | 2.800 |
| Qes | 0.310 |
| Qts | 0.279 |
| Re | 5.85 Ω |
| Vas | 13.13l / 0.46ft ³ |
| Bi | 14.56Tm |
| Cms | 0.18mm/N |
| Rms | 4.01kg/s |
| Le (at 1kHz) | 0.62mH |
| Xmax | 4mm / 0.16in |

Additional HF Specifications

| | |
|----------------------------|---------------------------|
| Power rating | 40W |
| Continuous power rating | 80W |
| Rated impedance | 8 Ω |
| Sensitivity | 103dB |
| Frequency range | 1500-20,000Hz |
| Recommended min. crossover | 2200Hz |
| | 12dB/oct |
| Voice coil diameter | 34mm / 1.4in |
| Magnet type | Dual-ferrite magnet motor |
| Diaphragm material | Polyimide |
| Surround material | Polyimide |

Packed Dimensions & Weight

| | |
|----------------------------|--|
| Single pack size W x D x H | 238mm x 238mm x 148mm / 9.3in x 9.3in x 5.8in |
| Single pack weight | 4.7kg / 10.3lb |
| Multi pack qty | 40 |
| Multi pack size W x D x H | 890mm x 1100mm x 890mm / 35.08in x 43.3in x 35.0in |
| Multi pack weight | 195kg / 430lb |

CELESTION

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