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

400W
Continuous power rating

94dB
Sensitivity

2in
Edgewound copper voice coil

1.4in



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

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

General Specifications

Nominal Diameter	200mm / 8in
Power Rating	200W
Continuous power rating	400W
Rated impedance	8 ohm
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

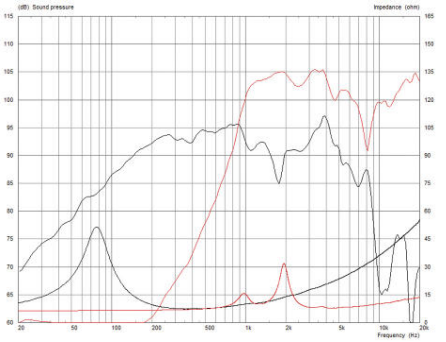
Parameters

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 ohm
Vas	13.13l / 0.46ft^3
Bl	14.56Tm
Cms	0.18mm/N
Rms	4.01kg/s
Le (at 1kHz)	0.62mH
Xmax	4mm / 0.16in

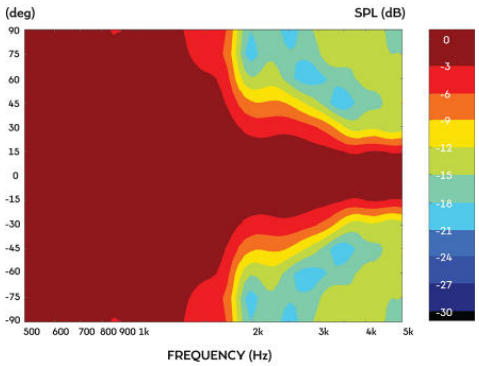
Additional HF Specifications

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

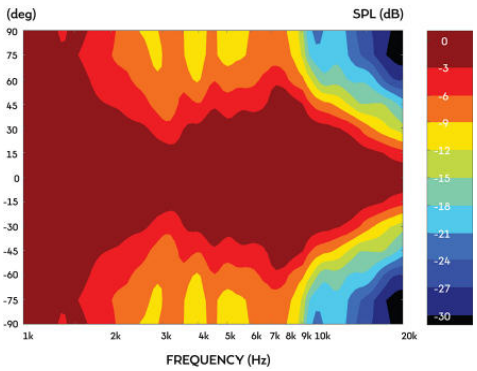
Frequency Response and Impedance Curves



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*(Hvc-Hg) + 0.25*Hg
Suggested crossover design available online at celestion.com/speakerworld

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