Coaxial Loudspeakers

CNX0820

8-inch cast aluminium chassis, neodymium magnet coaxial driver

- Neodymium magnet assembly acts as common motor for both LF and HF
- Polyimide HF diaphragm: field repairable
- Twin demodulation rings to reduce harmonic and intermodulation distortion
- Integrated 50° dispersion constant directivity horn

500W
Continuous power rating

95dB
Sensitivity

2in
Edgewound copper clad aluminium voice coil

1.75in



General Specifications

Nominal Diameter	200mm / 8in
Power Rating	250W
Continuous power rating	500W
Rated impedance	8 ohm
Sensitivity	95dB
Frequency range	80-5,000Hz
Chassis type	Cast aluminium
Magnet type	Neodymium
Voice coil diameter	50mm / 2in
Voice coil material	Edgewound copper clad aluminium
Former material	Polyimide
Cone material	Kevlar loaded paper
Surround material	Triple roll, cloth sealed
Suspension	Single
Gap height (Hg)	8mm / 0.31in
VC winding height (Hvc)	16mm / 0.63in

Mounting Information

Overall diameter	215mm / 8.5in
Overall depth	115mm / 4.53in
Cut-out diameter	187mm / 7.4in
Mounting hole dimensions	7x5.6mm / 0.28x0.22in
Number of mounting holes	8
Mounting hole PCD	197-200mm / 7.8-7.9in
Unit weight	2.5kg / 5.5lb

Parameters

Sd	226.98cm^2 / 35.18in^2
Fs	94.6Hz
Mms	20.9g/0.74oz
Qms	3.293
Qes	0.448
Qts	0.395
Re	5.10 ohm
Vas	9.89l / 0.35 ft^3
Bl	12.02Tm
Cms	0.14 mm/N
Rms	3.77kg/s
Le (at 1kHz)	0.46mH
Xmax	6mm / 0.24in

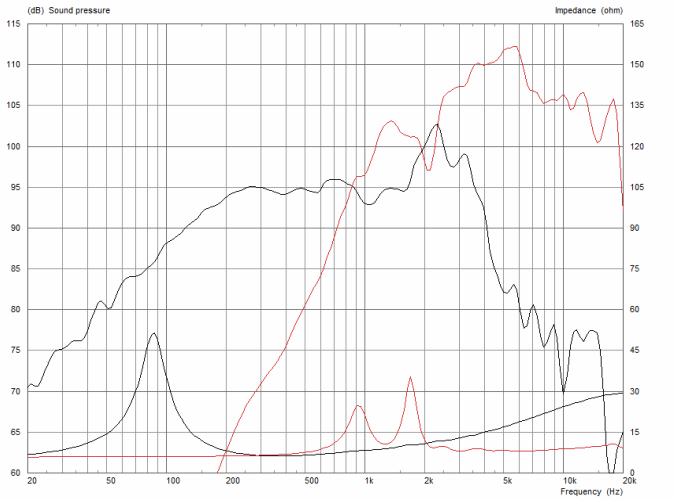
Additional HF Specifications

Power rating	50W
Continuous power rating	100W
Rated impedance	8 ohm
Sensitivity	107dB
Frequency range	1200-20,000Hz
Recommended min. crossover 12d B/oct	2,000Hz
Voice coil diameter	44mm / 1.75in
Magnet type	Neodymium, common motor
Diaphragm material	Polyimide
Surround material	Polyimide

Packed Dimensions & Weight

Single pack size W x D x H	240mm x 240mm x 160mm / 9.4in x 9.4in x 6.3in
Single pack weight	3.1kg / 6.8lb

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

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