

Coaxial Loudspeakers

CNX1230



12-inch cast aluminium chassis, neodymium magnet coaxial driver

- Neodymium magnet assembly acts as common motor for both LF and HF
- Titanium HF diaphragm: field repairable
- Twin demodulation rings to reduce harmonic and intermodulation distortion
- Integrated 60° x 40° dispersion constant directivity horn

700W

Continuous power rating

96dB

sensitivity

3in

Edgewound clad copper voice aluminium coil

3in

General Specifications

Nominal Diameter	305mm / 12in
Power Rating	350W
Continuous power rating	700W
Rated impedance	8 ohm
Sensitivity	96dB
Frequency range	50Hz - 3,500Hz
Chassis type	Cast aluminium
Magnet type	Neodymium
Voice coil diameter	75mm / 3in
Voice coil material	Edgewound copper clad aluminium
Former material	Polyimide
Cone material	Kevlar loaded paper
Surround material	Cloth-sealed
Suspension	Single
Gap height (Hg)	10mm / 0.39in
VC winding height (Hvc)	18mm / 0.71in

Mounting Information

Overall diameter	318mm / 12.5in
Overall depth	177mm / 6.97in
Cut-out diameter	286mm / 11.26in
Mounting hole dimensions	7.5mm x 6.5mm / 0.29in x 0.26in
Number of mounting holes	8
Mounting hole PCD	298-304mm / 11.70-11.97in
Unit weight	5.2kg / 11.5lb

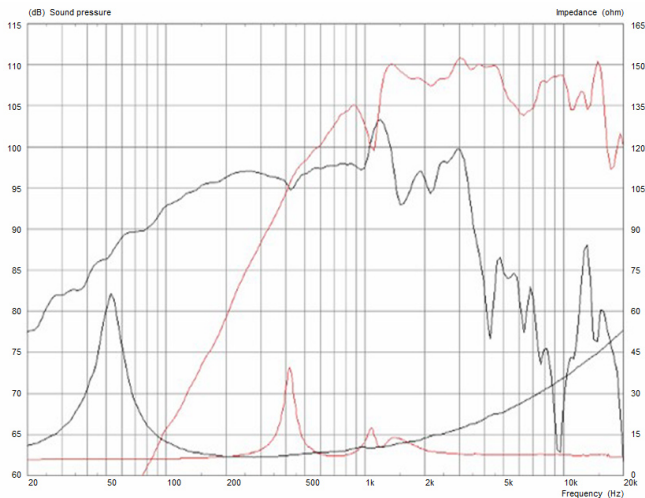
Parameters

Sd	530.9cm ² /82.3in ²
Fs	53.9Hz
Mms	50.96g/1.79oz
Qms	5.444
Qes	0.360
Qts	0.337
Re	5.56 ohm
Vas	68.37l/2.41ft ³
Bl	16.32Tm
Cms	0.171mm/N
Rms	3.168kg/s
Le (at 1kHz)	0.522mH
Xmax	6.5mm / 0.26in

Additional HF Specifications

Power rating	75W
Continuous power rating	150W
Rated impedance	8 ohm
Sensitivity	106.5dB
Frequency range	500Hz - 18,000Hz
Recommended min. crossover	12d B/oct
Voice coil diameter	75mm / 3in
Magnet type	Neodymium, common motor
Diaphragm material	Titanium
Surround material	Titanium

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