



CX15N251

COAXIAL



Description	The CX15N251 is a lightweight coaxial driver with excellent linearity and high efficiency. The CX15N251 radiates a coherent single spherical wave front with perfect dispersion control. The design is powered from a large sized single neodymium ring magnet that provides an extremely high flux density and BL factor. The new hyper-vented aluminium basket and magnetic assembly design provide an excellent heat dissipation and lower power compression. Special air-forced ventilations are provided for voice coil, magnet assembly and basket. A 2,5" voice coil combined a strength fibreglass former and aluminium wire drives the mid-bass cone with high efficiency and a good extension. The 1,7" dome compression driver, loaded to a 60° conical waveguide, provides a clear vocal output and a perfect high frequency extension.
Features	› 600 Watt continuous program power handling Mid-Bass › 2.5-inch , fibreglass outside aluminum voice coil › 101 dB Sensitivity › 50 Hz - 3.0 kHz Frequency range › Dual-forced air ventilation for minimum power compression › Triple-roll surround and exponential cone geometry › Demodulation ring › 100 Watt Continuous program power handling HF › 1.75-inch Diaphragm, 1.0-inch Exit Throat › Frequency range: 1200Hz – 20kHz
Part Number	11100070 CX15N251 8ohm



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TECHNICAL SPECIFICATIONS

General specifications

Nominal Diameter	15 inch / 381 mm
Related Impedance	8.00 ohm
Program Power	600 W
Power handling capacity	300 W
Sensitivity	101.0 dB
Frequency range	50 - 3000 Hz
Effective piston diameter	330 mm / 12.99 inch
Max. Excursion Before Damage	30 mm / 1.18 inch
Minimum Impedance (ohm)	6.4 ohm
Voice Coil Diameter	2.5 inch / 63 mm
Voice Coil Material	Aluminum
Voice Coil Winding Depth	0.55 inch / 14 mm
Number of layers	1
Kind of layers	outside
Top Plate Thickness	8 mm / 0.31 inch
Cone Design	Curved
Surround Material	Polycotton
Surround Design	Triple roll
Magnets	Neodymium
Dual-force air ventilation	Yes
Demodulation Rings material	Aluminum
Spider	1

Thiele - small parameters

Resonance frequency (Fs)	55 Hz
DC resistance (Re) (ohm)	5.20 ohm
Mechanical factor	8.00 Qms
Electrical factor	0.37 Qes
Total factor	0.35 Qts
Bl factor (Bl) (T x m)	18.10 T x m
Effective moving mass (Mms)	71.0 g
Equivalent Cas air loaded (Vas)	136.0 liters
Effective piston area (Sd)	0.090 m ²
Max. linear excursion (Xmax)	5 mm
Voice coil inductance @ 1kHz (Le1k)	1.20 mH
Half-space efficiency (Eff)	5.00%



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General specifications driver

Exit Throat Diameter	1.0 inch / 25 mm
Related Impedance	8.00 ohm
Program Power (watt)	100 W
Power handling capacity (watt)	50 W
Sensitivity	109 dB
Frequency range driver	1200 - 20000 Hz
Diaphragm Material	Polyimide
Suspension Material	Polyimide
Suspension Design	Flat
Minimum Impedance (ohm)	6.50 ohm
Voice Coil Diameter driver	1.75 inch / 44 mm
Voice Coil Material	Edgewound Aluminum
Number of layers	1.00
Kind of layers	outside
Flux Density	1.9 T
Phase Plug Design	2 slot
Phase Plug Material	PP Composite
Magnetics	Neodymium

General specifications horn

Throat Diameter	25 mm / 1 inch
Horizontal coverage angle	60°
Vertical coverage angle	60°
Cut-off Frequency	1800 Hz
Material	Structural Polyurethane

Mounting information

Overall diameter	388 mm / 15.28 inches
Bolt circle diameter	369-373 mm / 14.53-14.69 inch
Bolt hole diameter	6 mm / 0.24 inch
Front mount baffle cut-out	357 mm / 14.06 inch
Rear mount baffle cut-out	358 mm / 14.09 inch
Volume occupied by the driver	2.9 liters / 0.11 ft3

Line Art 2D

Standard compliance

Safety agency	CE compliant
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Size / Weight

Height	174 mm / 6.85 inches
Diameter	388 mm / 15.28 inches
Weight	4.28 kg / 9.46 lbs

