



CX12N251

COAXIAL



Description

The CX12N251 is a lightweight coaxial driver with excellent linearity and high efficiency. The CX12N251 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
- › 2.5-inch , fibreglass outside, aluminum voice coil
- › 99.5 dB Sensitivity
- › 50 Hz - 3.5 kHz Frequency range
- › Dual-forced air ventilation for minimum power compression
- › M-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

11100069 CX12N251

8ohm



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	TECHNICAL SPECIFICATIONS		
General specifications	Nominal Diameter	12 inch / 305 mm	
	Related Impedance	8.00 ohm	
	Program Power	600 W	
	Power handling capacity	300 W	
	Sensitivity	100.0 dB	
	Frequency range	50 - 3500 Hz	
	Effective piston diameter	260 mm / 10.24 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 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 Design	Triple roll	
	Dual-force air ventilation	Yes	
	Thiele - small parameters	Resonance frequency (Fs)	60 Hz
		DC resistance (Re) (ohm)	5.20 ohm
Mechanical factor		5.40 Qms	
Electrical factor		0.28 Qes	
Total factor		0.26 Qts	
Bl factor (Bl) (T x m)		17.50 T x m	
Effective moving mass (Mms)		41.0 g	
Equivalent Cas air loaded (Vas)		62.0 liters	
Effective piston area (Sd)		0.050 m ²	
Max. linear excursion (Xmax)		5 mm	
Voice coil inductance @ 1kHz (Le1k)		1.20 mH	
Half-space efficiency (Eff)	5.20%		
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	
	Suspension Design	Flat	
	Minimum Impedance (ohm)	6.50 ohm	
	Voice Coil Diameter driver	1.75 inch / 44 mm	
	Number of layers	1.00	
	Kind of layers	outside	
Flux Density	1.9 T		
Phase Plug Design	2 slot		
General specifications horn	Throat Diameter	25 mm / 1 inch	
	Horizontal coverage angle	60°	
	Vertical coverage angle	60°	
	Cut-off Frequency	1800 Hz	
Mounting information	Overall diameter	320 mm / 12.6 inches	
	Bolt circle diameter	295-304 mm / 11.61-11.97 inch	
	Bolt hole diameter	6 mm / 0.24 inch	
	Front mount baffle cut-out	288 mm / 11.34 inch	
	Rear mount baffle cut-out	288 mm / 11.34 inch	
	Volume occupied by the driver	2.4 liters / 0.09 ft ³	



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Size	Height	165 mm / 6.5 inches
	Diameter	320 mm / 12.6 inches
	Weight	3.6 kg / 7.94 lbs

Line Art 2D

