

CX12N351

COAXIAL

DESCRIPTION

The CX12N351 is a top class coaxial design that provides an excellent frequency response linearity withvery low distortion. The CX12N351 is powered from an integrated high power neodymium magnetic structure that guarantee high dynamic and sensitivity for both components. The mid-bass section features a 3,5" inside-outside voice coil design that provides a very high power handling, especially in comparison to a standard 3" voice coil.

Thanks to an integrated demodulation ring the mid-bass section gets a fastest time response and lower distortion. The compression driver use a 2.5" diaphragm with a 1.4" throat featuring several state of the art technologies. The diaphragm and suspension are formed from 0.05 mm thick pure titanium



FEATURES

- 3.5-inch, fibreglass outside aluminum voice coil
- 900 Watt continuous program power handling
- 98.5 dB Sensitivity
- 50 Hz 3.0 kHz Frequency range
- Dual-forced air ventilation for minimum power compression
- M-roll surround and exponential cone geometry
- Demodulation ring
- 2.5-inch Diaphragm, 1.4-inch Exit Throat/pure titanium compression driver
- 180 Watt Continuous program power handling
- Frequency range: 700Hz 20kHz



TECHNICAL SPECIFICATIONS

General specifications Nominal Diameter: 12 inch / 305 mm

Related Impedance: 8.00 ohm
Program Power (watt): 180 W
Power handling capacity (watt): 90 W
Sensitivity: 110 dB

Frequency range: 700 - 20000 Hz

Effective piston diameter: 260 mm / 10.24 inch

Max. Excursion Before Damage: 39 mm / 1.54 inch

Minimum Impedance (ohm): 6.80 ohm

Voice Coil Diameter: 3.5 inch / 89 mm

Voice Coil Material: Copper

Voice Coil Winding Material: 3.5 inch / 89 mm

Number of layers: 2

Kind of layers: inside/outside
Top Plate Thickness: 11 mm / 0.43 inch

Cone Design: Curved
Surround Material: Polycotton
Surround Design: M-roll

Magnets: Neodymium

Dual-force air ventilation: Yes
Spider: Single

Thiele - small parameters Resonance frequency (Fs): 58 Hz

DC resistance (Re) (ohm): 5.80 ohm Mechanical factor: 5.40 Qms Electrical factor: 0.21 Qes Total factor: 0.20 Qts BI factor (BI) (T x m): 25.00 T x m Effective moving mass (Mms): 62 gr Equivalent Cas air loaded (Vas): 47.00 liters Effettive piston area (Sd): 0.05 m2 Max. linear excursion (Xmax): 6 mm

Half-space efficency (Eff): 4.40%

1.50 mH

Voice coil inductance @ 1kHz (Le1k):



General specifications driver	Exit Throat Diameter:	1.4 inch / 36 mm
	Related Impedance:	8.00 ohm
	Program Power (watt):	180 W
	Power handling capacity (watt):	90 W
	Sensitivity:	110 dB
	Frequency range driver:	700 - 20000 Hz
	Diaphragm Material:	Pure Titanium
	Suspension Material:	Pure Titanium
	Suspension Design:	Progressive
	Minimum Impedance (ohm):	7.90 ohm
	Voice Coil Diameter driver:	2.5 inch / 63 mm
	Voice Coil Material:	Aluminium
	Number of layers:	1.00
	Kind of layers:	outside
	Flux Density:	2.00 T
	Phase Plug Design:	3 slot
	Phase Plug Material:	Aluminium
	Magnetics:	Neodymium
	Voice Coil Demodulation Ring:	Copper
General specifications horn	Throat Diameter:	36 mm / 1.4 inch
	Horizontal coverage angle:	60°
	Vertical coverage angle:	60°
	Cut-off Frequency:	900 Hz
	Material:	Structural Polyurethane
Mounting informations	Overall diameter:	320 mm / 12.6 inches
	Bolt circle diameter:	293-304 mm / 11.54-11.97 inch
	Bolt hole diameter:	7 mm / 0.28 inch
	Front mount baffle cut-out:	284 mm / 11.18 inch
	Rear mount baffle cut-out:	284 mm / 11.18 inch
	Volume occupied by the driver:	2.2 liters / 0.09 ft3
Standard compliance	CE marking:	Yes
Size	Height:	157 mm / 6.18 inches
Size	Diameter:	320 mm / 12.6 inches
	Weight:	6.29 kg / 13.87 lbs
Chinning informations	Dagkaga Haighti	240 mm / 0 45 inches
Shipping informations	Package Height:	240 mm / 9.45 inches
	Package Width:	360 mm / 14.17 inches
	Package Depth:	360 mm / 14.17 inches
	Package Weight:	7.47 kg / 16.47 lbs



PART NUMBER

· 11100058

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8ohm









