



CX12N351

COAXIAL



Description	The CX12N351 is a top class coaxial design that provides an excellent frequency response linearity with very 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
Part Number	11100058 CX12N351 8ohm



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TECHNICAL SPECIFICATIONS

General specifications

Nominal Diameter	12 inch / 305 mm
Related Impedance	8.00 ohm
Program Power	900 W
Power handling capacity	450 W
Sensitivity	100.4 dB
Frequency range	50 - 3000 Hz
Effective piston diameter	260 mm / 10.24 inch
Max. Excursion Before Damage	39 mm / 1.54 inch
Minimum Impedance (ohm)	6.8 ohm
Voice Coil Diameter	3.5 inch / 89 mm
Voice Coil Material	Copper
Voice Coil Winding Depth	0.67 inch / 17 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
Bl factor (Bl) (T x m)	25.00 T x m
Effective moving mass (Mms)	62.0 g
Equivalent Cas air loaded (Vas)	47.0 liters
Effective piston area (Sd)	0.050 m ²
Max. linear excursion (Xmax)	6 mm
Voice coil inductance @ 1kHz (Le1k)	1.50 mH
Half-space efficiency (Eff)	4.40%



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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	Aluminum
Number of layers	1.00
Kind of layers	outside
Flux Density	2.0 T
Phase Plug Design	3 slot
Phase Plug Material	Aluminum
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 information

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 liters / 0.09 ft3

Line Art 2D

Standard compliance

Size / Weight

Safety agency	Compliant
Height	125 mm / 4.91 inches
Diameter	144 mm / 5.68 inches
Weight	6.29 kg / 13.87 lbs

