

CX15N351

COAXIAL

DESCRIPTION

This CX15N351 is designed to provide an excellent frequency response linearity with very low distortion.

This coaxial use a strongest unique neodymium magnetic structure that guarantee high dynamic and sensitivity for both components. The mid-bass section use a 3,5" voice coil design provides a very high power handling, especially recommended in comparison to a standard 3" voice coil, demodulation ring get a fastest time response and lower distortion .

The compression driver use a 2.5-inch diaphragm with a 1.4 inch throat featuring several state of the art technologies. The diaphragm and suspension are formed from 0.05mm thick pure titanium. The unique magnetic structure allow to get a single point source that providing coherent wave front.



FEATURES

- 3.5 - inch Inside / Outside copper voice coli
- 900 Watt continuous program power LF
- 101 dB Sensitivity
- 40 Hz - 3 kHz Frequency range
- Dual - forced air ventilation for minimum power compression
- Dual spider design with silicon based damping control
- 2.5 - inc Diaphragm, 1.4 - inch Exit Throat / Pure Titanium Compression Driver
- 180 Wat Continuous program power HF
- Frequency range: 700 Hz - 20 kHz
- Direct Drive Voice Coil Assembly

TECHNICAL SPECIFICATIONS

General specifications

Nominal Diameter:	15 inch / 381 mm
Related Impedance:	8.00 ohm
Program Power (watt):	900 W
Power handling capacity (watt):	450 W
Sensitivity:	101 dB
Frequency range:	40 - 3000 Hz
Effective piston diameter:	330 mm / 12.99 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
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
Demodulation Rings material:	Aluminium
Spider:	Dual with silicon based damping control

Thiele - small parameters

Resonance frequency (Fs):	55 Hz
DC resistance (Re) (ohm):	5.60 ohm
Mechanical factor:	6.00 Qms
Electrical factor:	0.27 Qes
Total factor:	0.26 Qts
Bl factor (Bl) (T x m):	23.50 T x m
Effective moving mass (Mms):	80 gr
Equivalent Cas air loaded (Vas):	110.00 liters
Effective piston area (Sd):	0.09 m ²
Max. linear excursion (Xmax):	6 mm
Voice coil inductance @ 1kHz (Le1k):	1.65 mH
Half-space efficiency (Eff):	6.53%

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:	Edgewound 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:	800 Hz
Material:	Structural Polyurethane

Mounting informations

Overall diameter:	393 mm / 15.47 inches
Bolt circle diameter:	371-376 mm / 14.61-14.8 inch
Bolt hole diameter:	7 mm / 0.28 inch
Front mount baffle cut-out:	354 mm / 13.94 inch
Rear mount baffle cut-out:	354 mm / 13.94 inch
Volume occupied by the driver:	3.8 liters / 0.15 ft ³

Standard compliance

CE marking:	Yes
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Size

Height:	254 mm / 10 inches
Diameter:	393 mm / 15.47 inches
Weight:	7 kg / 15.43 lbs

Shipping informations

Package Height:	240 mm / 9.45 inches
Package Width:	440 mm / 17.32 inches
Package Depth:	440 mm / 17.32 inches
Package Weight:	8.5 kg / 18.74 lbs



PART NUMBER

- **11100032**

CX15N351

8ohm



