

# 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

<b>General specifications</b>	Nominal Diameter:	15 inch / 381 mm
	Related Impedance:	8.00 ohm
	Program Power:	900 W
	Power handling capacity:	450 W
	Sensitivity:	101.0 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):	6.8 ohm
	Voice Coil Diameter:	3.5 inch / 89 mm
	Voice Coil Material:	Copper
	Voice Coil Winding Depth:	0.67 inch / 17 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	

<b>Thiele - small parameters</b>	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):	80.0 g
	Equivalent Cas air loaded (Vas):	110.0 liters
	Effective piston area (Sd):	0.090 m <sup>2</sup>
	Max. linear excursion (Xmax):	6 mm
	Voice coil inductance @ 1kHz (Le1k):	1.65 mH
	Half-space efficiency (Eff):	6.53%



<b>General specifications driver</b>	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:	2.0 T
	Phase Plug Design:	3 slot
	Phase Plug Material:	Aluminium
	Magnetics:	Neodymium
Voice Coil Demodulation Ring:	Copper	
<b>General specifications horn</b>	Throat Diameter:	36 mm / 1.4 inch
	Horizontal coverage angle:	60°
	Vertical coverage angle:	60°
	Cut-off Frequency:	800 Hz
	Material:	Structural Polyurethane
<b>Mounting information</b>	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 <sup>3</sup>
<b>Standard compliance</b>	Safety agency:	CE compliant
<b>Size</b>	Height:	254 mm / 10 inches
	Diameter:	393 mm / 15.47 inches
	Weight:	7 kg / 15.43 lbs
<b>Shipping information</b>	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



