

PART NUMBER 11100032

Coax. Features

- 3,5 inch Inside/Outside copper voice coil
- 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-inch Diaphragm, 1.4-inch Exit Throat/ Pure Titanium Compression Driver
- 180 Watt Continuous program power HF
- Frequency range: 700Hz 20kHz
- Direct Drive[™] Voice Coil Assembly
- 3-slot, optimized geometry phase plug
- Aluminum rear cover dissipation design
- Copper inductance ring for extended response
- Vented, damped, low distortion, variable profile suspension System

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Applications

The CX15N351 transducer is designed for use in compact reflex enclosures and stage monitors. Is a ideal for use in applications where is required a very high efficiency and linearity with high power handling.





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CX15N351 DRIVER

Nominal diameter	35 5/1 4	mm/inch
Rated impedance	8	ohm
Program power	180	Watts
Power handling capacity	90	Watts
Sensitivity 1W, 1m	110	dB
Frequency range	700 - 20000	Hz
Minimum impedance	7.9	ohm
Voice Coil diameter	63.7/2.5	mm/inch
Voice Coil material	Edgewound A1	
Number of layers	1- Outside	
Diaphragm material	Pure Titanium	
Diaphragm design	Dome	
Suspension material	Pure Titanium	
Suspension design	Progressive	
BL factor	10.4	Txm
Flux density	2.0	T
Phase plug design	3 slot	
Phase plug material	Aluminium	
Magnetics	Neodymium	
Voice coil demodulation	Copper ring	

CX15N351 HORN

Throat diameter	36/1.4
Nominal coverage (-6dB)	60°
Cut-off Frequency	800
Material	Structural Polyurethane



Frequency response curve of the loudspeaker taken in a reflex box with an internal volume of 80 litres tuned at 55 Hz.



General Specifications

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power ¹	900	Watts
Power handling capacity ²	450	Watts
Sensitivity ³	101	dB
Frequency Range	40 - 3000	Hz
Effective Piston Diameter	330/13	mm/inch
Max Excursion Before Damage (peak to peak)	39/1.5	mm/inch
Minimum Impedance	6,8	ohm
Voice Coil Diameter	87/3.4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	16.5/0.65	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	11/0.43	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M-roll	

Thiele - Small Parameters⁴

Resonance frequency	Fs	55	Hz
DC resistance	Re	5.6	ohm
Mechanical factor	Qms	6	
Electrical factor	Qes	0.27	
Total factor	Qts	0.26	
BL Factor	BL	23.5	Τ·m
Effective Moving Mass	Mms	80	gr
Equivalent Cas air load	Vas	110	liters
Effettive piston area	Sd	0.086	m ²
Max. linear excursion (mathematical) ⁵	Xmax	5.5	mm
Voice - coil inductance @ 1KHz	Le1K	1.65	mH
Half-space efficiency	Eff	6.53	%

Mounting Information

Overall Diameter	393/15.5	mm/inch
Bolt Circle Diameter	371-376/14.6-14.8	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	354/13.9	mm/inch
Rear Mount Baffle Cut-out	354/14.2	mm/inch
Depth	164/6.4	mm/inch
Volume occupied by the driver ⁶	3.8/0.13	liters/ft3

Shipping Information

Net Weight	6.514.3	Kg/Lbs
Shipping Weight	7.3/16	Kg/Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 500-2,5 kHz pink noise signal with input power of 2.83V @ 8 0hms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.