

PART NUMBER 11100070

MID-BASS DRIVER

- 600 Watt continuous program power handling
- 2.5-inch , fibreglass outside aluminum voice coil
- 101 dB Sensitivity
- 50 Hz 3.0 kHz Frequency range
- Dual-forced air ventilation for minimum power compression
- Triple-roll surround and exponential cone geometry
- Demodulation ring

HF DRIVER

- 100 Watt Continuous program power handling
- 1.75-inch Diaphragm, 1.0-inch Exit Throat
- Frequency range: 1200Hz 20kHz
- 2-slot, optimised geometry phase plug
- Polyester diaphragm
- Aluminum rear cover

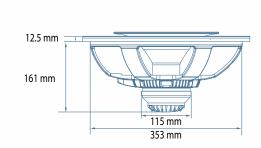
The CX15N251 is a lightweight coaxial driver with excellent linearity and high efficiency. The CX15N251 radiates a coherent single spherical wave front with perfect dispersion control. The design is powered from a large sized single neodymium ring magnet that provides an extremely high flux density and BL factor. The new hyper-vented aluminium basket and magnetic assembly design provide an excellent heat dissipation and lower power compression.

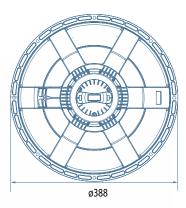
Special air-forced ventilations are provided for voice coil, magnet assembly and basket. A 2,5" voice coil combined a strength fibreglass former and aluminium wire drives the midbass cone with high efficiency and a good extension.

The 1,7" dome compression driver, loaded to a 60° conical waveguide, provides a clear vocal output and a perfect high frequency extension.

APPLICATIONS

The CX15N251 is the perfect lightweight solution for vocal applications, stage monitoring and compact 2-way reflex enclosures. Ideal in designs where a constant radial directivity pattern is a requirement. is designed for use in compact reflex enclosures and stage monitor.







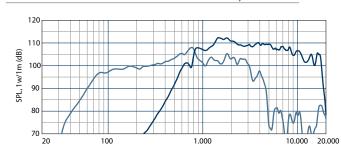


CX15N251 DRIVER

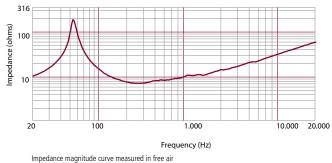
Nominal diameter	25.4/1.0	mm/inch
Rated impedance	8	ohm
Program power	100	Watts
Power handling capacity	50	Watts
Sensitivity 1W, 1m	109	dB
Frequency range	1200 - 20000	Hz
Minimum impedance	6.5	ohm
Voice Coil diameter	44.4/1.75	mm/inch
Voice Coil material	Edgewound Aluminum	
Number of layers	1- Outside	
Diaphragm material	Polyimide	
Diaphragm design	Dome	
Suspension material	Polyimide	
Suspension design	Flat	
BL factor	7.5	Txm
Flux density	1.9	Т
Phase plug design	2 slot	
Phase plug material	Composite	
Magnetics	Neodymium	

CX15N251 HORN

Throat diameter	25.4/1.0
Nominal coverage (-6dB)	60°
Cut-off Frequency	1800
Material	Structural Polyurethane



Frequency (Hz) Frequency response curve of the loudspeaker make in a hemispherical, free field and mounted in a reflex box with an internal volume of 50 litres and tuned at 60Hz, applying a sinusoidal signal of 2.83 V@8 at 1m.



GENERAL SPECIFICATIONS

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power 1	600	Watts
Power handling capacity ³	300	Watts
Sensitivity ³	101	dB
Frequency Range	50 - 3000	Hz
Effective Piston Diameter	330/13	mm/inch
Max Excursion Before Damage (peak to peak)	30/1.18	mm/inch
Minimum Impedance	6,4	ohm
Voice Coil Diameter	64/2.52	mm/inch
Voice Coil Material	Aluminum	
Voice Coil Winding Depth	14/0.55	mm/inch
Layers	outside	
Top Plate Thickness	8/0.31	
Cone Material	No pressed pulp	mm/inch
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	Triple-roll	
Demodulation Ring	Aluminum	
Magnetics	Neodymium	

THIELE - SMALL PARAMETERS 4

Resonance frequency	Fs	55	Hz
DC resistance	Re	5.2	ohm
Mechanical factor	Qms	8	
Electrical factor	Qes	0.37	
Total factor	Qts	0.35	
BL Factor	BL	18.1	Τ·m
Effective Moving Mass	Mms	71	gr
Equivalent Cas air load	Vas	136	liters
Effettive piston area	Sd	0.086	m ²
Max. linear excursion (mathematical) 5	Xmax	4.8	mm
Voice - coil inductance @ 1KHz	Le1K	1.2	mH
Half-space efficiency	Eff	5.0	%

MOUNTING INFORMATION

Overall Diameter	388/15.3	mm/inch
Bolt Circle Diameter	369-373.5/14.5-14.7	mm/inch
Bolt Hole Diameter	5.5/0.21	mm/inch
Front Mount Baffle Cut-out	357/14.60	mm/inch
Rear Mount Baffle Cut-out	358/14.09	mm/inch
Depth	161/6.34	mm/inch
Volume occupied by the driver ⁶	2.9/0.10	liters/ft3

SHIPPING INFORMATION

Net Weight	3.8/8.38	Kg/Lbs
Shipping Weight	4.8/10.58	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 Ohms. - 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. The data are not binding; RCF reserves the right to modify the data at any time and without previous notice.