

COAXIAL CX15G251

Professional Low Frequency Transducer

PART NUMBER **11100099**

Coax. Features

- 600 Watt continuous program power handling Mid-Bass
- 2.5-inch , fibreglass outside aluminium voice coil
- 100 dB Sensitivity
- 50 Hz - 3.5 kHz Frequency range
- Dual-forced air ventilation for minimum power compression
- Triple-roll surround and exponential cone geometry
- 100 Watt Continuous program power handling HF
- 1.75-inch Diaphragm, 1.0-inch Exit Throat
- Frequency range: 1200Hz – 20kHz
- 2-slot, optimised geometry phase plug
- Kapton diaphragm
- Aluminium rear cover

The CX15G251 is a lightweight coaxial driver with excellent linearity and high efficiency.

The CX15G251 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.

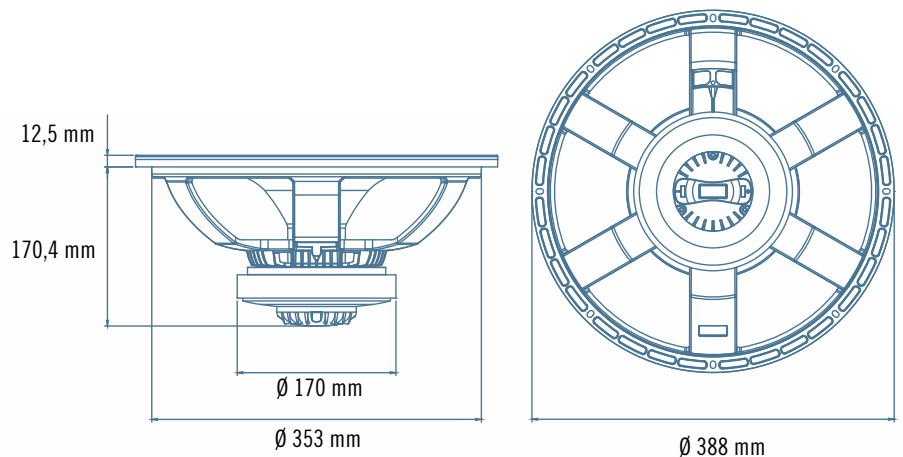
A 2,5" voice coil combined a strength fibreglass former and aluminium wire drives the mid-bass cone with high efficiency and a good extension.

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 CX15G251 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.



50

3500

20

100

1.000

10.000

20.000

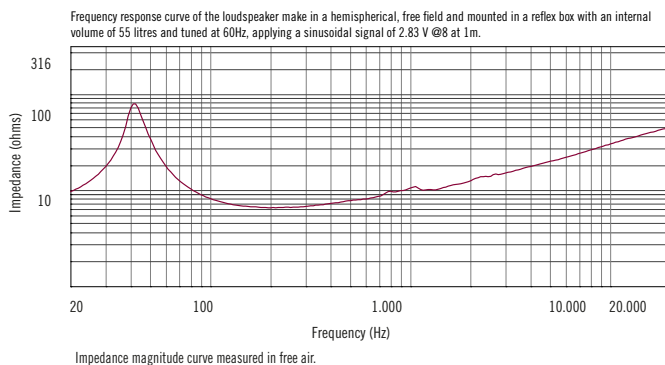
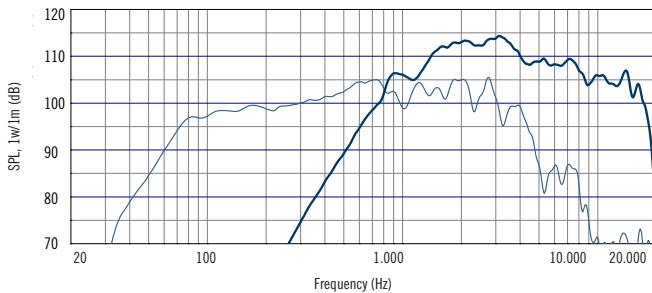


CX15G251 DRIVER

Nominal diameter	25,4/1,00	mm / inch
Rated impedance	8	ohm
Program power	100	Watts
Power handling capacity	50	Watts
Sensitivity 1W, 1m	105	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	Kapton	
Diaphragm design	Dome	
Suspension material	Kapton	
Suspension design	Flat	
BL factor	7,5	T x m
Flux density	1,6	T
Phase plug design	2 slot	
Phase plug material	Composite	
Magnetics	Ferrite	

CX15G251 HORN

Throat Diameter	25,4/1,00
Nominal Coverage (-6dB)	60°
Cut-off-Frequency	1800
Material	Structural Polyurethane



General Specifications

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power ¹	600	Watts
Power handling capacity ²	300	Watts
Sensitivity ³	100	dB
Frequency Range	50 - 3500	Hz
Effective Piston Diameter	330/15	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
Number of layers	1	
Top Plate Thickness	8/0,31	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	Triple - roll	

Thiele - Small Parameters⁴

Resonance frequency	41	Hz
DC resistance	5,2	W
Mechanical factor	7,6	
Electrical factor	0,41	
Total factor	0,39	
BL Factor	14,9	T x m
Effective Moving Mass	70	gr
Equivalent Cas air load	219	liters
Effective piston area	0,086	m ²
Max. linear excursion (mathematical) ⁵	4,8	mm
Voice - coil inductance @ 1KHz	0,5	mH
Half-space efficiency	3,50	%

Mounting Information

Overall Diameter	388/15,3	mm/inch
Bolt Circle Diameter	369 - 373,5/14,5 - 14,7	mm/inch
Bolt Hole Diameter	5,5/0,22	mm/inch
Front Mount Baffle Cut-out	355/13,98	mm/inch
Rear Mount Baffle Cut-out	358/14,09	mm/inch
Depth	161/6,34	mm/inch
Volume occupied by the driver ⁶	3,5/0,12	liters/ft ³

Shipping Information

Net Weight	7,0/15,43	Kg/Lbs
Shipping Weight	7,3/16,09	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.