

#### PART NUMBER 11100097

## Coax. Features

- 600 Watt continuous program power handling Mid-Bass
- 2.5-inch , fibreglass outside aluminium voice coil
- 98.5 dB Sensitivity
- 65 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
- Aluminum rear cover

The CX10G251 is a lightweight coaxial driver with excellent linearity and high efficiency.

The CX10G251 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.

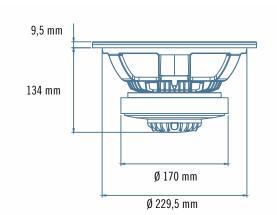
A 2,5" voice coil combined a strength fibreglass former and aluminium wire drives the mid-bass cone with high efficiency and a good extension.

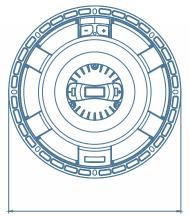
The 1,7" dome compression driver, loaded to a  $60^{\circ}$  conical waveguide, provides a clear vocal output and a perfect high frequency extension.

# **Applications**

The CX10G251 is the perfect lightweight solution for vocal applications, stage monitoring and compact 2-way reflex enclosures.

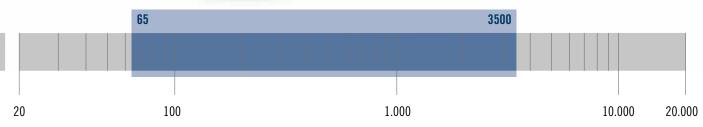
Ideal in designs where a constant radial directivity pattern is a requirement. is designed for use in compact reflex enclosures and stage monitor.





Ø 260 mm





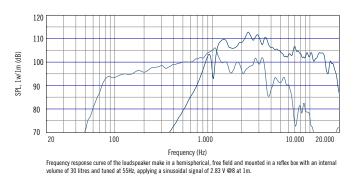


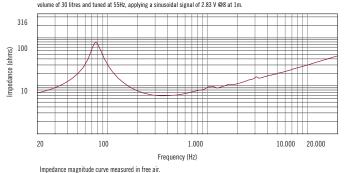
### CX10G251 DRIVER

Nominal diameter	25,4/1,00	mm/inch
Rated impedance	8	ohm
Program power	100	Watts
Power handling capacity	50	Watts
Sensitivity 1W, 1m	110	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		
Diaphragm material	1-Outside	
Diaphragm design	Kapton	
Suspension material	Kapton	
Suspension design	Dome	
BL factor	Flat	Тхm
Flux density	7,5	T
Phase plug design	1,6	
Phase plug material	2 slot	
Magnetics	Ferrite	

### CX10G251 HORN

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





### **General Specifications**

Nominal diameter	250/9,84	mm / inch
Rated impedance	8	ohm
Program power	600	Watts
Power handling capacity	300	Watts
Sensitivity 1W, 1m	98,5	dB
Application range	65 - 3500	Hz
Effective piston diameter	210/8,27	mm / inch
Max exc before damage (peak to peak)	30/1,18	mm / inch
Minimum impedence	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	M - roll	
Demodulation ring	Aluminum	

### **Thiele - Small Parameters<sup>4</sup>**

Resonance frequency	Fs	72	Hz
DC resistance	Re	5,2	ohm
Mechanical factor	Qms	5,0	
Electrical factor	Qes	0,30	
Total factor	Qts	0,28	
BL Factor	BL	14,2	T·m
Effective Moving Mass	Mms	25	gr
Equivalent Cas air load	Vas	33	liters
Effettive piston area	Sd	0,035	m <sup>2</sup>
Max. linear excursion (mathematical) <sup>5</sup>	Xmax	4,8	mm
Voice - coil inductance @ 1KHz	Le1K	0,5	mH
Half-space efficiency	Eff	3,90	%

Mounting Information		
Overall Diameter	260/10,24	mm/inch
Bolt Circle Diameter	241 - 246/9,50 - 9,60	mm/inch
Bolt Hole Diameter	5,5/0,22	mm/inch
Front Mount Baffle Cut-out	232/9,13	mm/inch
Rear Mount Baffle Cut-out	232/9,13	mm/inch
Depth	134/5,28	mm/inch
Volume occupied by the driver <sup>6</sup>	2,5/0,09	liters/ft3

### Shipping Information

Net Weight	6,1/13,45	Kg/Lbs
Shipping Weight	6,3/13,89	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.