

CX10G251

COAXIAL

DESCRIPTION

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 ceramic 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.



FEATURES

- 600 Watt continuous program power handling Mid-Bass
- 2.5-inch , fibreglass outside, aluminum voice coil
- 98.5 dB Sensitivity
- 65 Hz - 3.5 kHz Frequency range
- Dual-forced air ventilation for minimum power compression
- M-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

TECHNICAL SPECIFICATIONS**General specifications**

Nominal Diameter:	10 inch / 254 mm
Related Impedance:	8.00 ohm
Program Power (watt):	600 W
Power handling capacity (watt):	300 W
Sensitivity:	98 dB
Frequency range:	65 - 3500 Hz
Effective piston diameter:	210 mm / 8.27 inch
Max. Excursion Before Damage:	30 mm / 1.18 inch
Minimum Impedance (ohm):	6.40 ohm
Voice Coil Diameter:	2.5 inch / 63 mm
Voice Coil Material:	Aluminium
Voice Coil Winding Material:	2.5 inch / 63 mm
Number of layers:	1
Kind of layers:	outside
Top Plate Thickness:	8 mm / 0.31 inch
Cone Design:	Curved
Surround Material:	Polycotton
Surround Design:	M-roll
Magnets:	Ceramic
Dual-force air ventilation:	Yes
Spider:	Single

Thiele - small parameters

Resonance frequency (Fs):	72 Hz
DC resistance (Re) (ohm):	5.20 ohm
Mechanical factor:	5.00 Qms
Electrical factor:	0.30 Qes
Total factor:	0.28 Qts
Bl factor (Bl) (T x m):	14.20 T x m
Effective moving mass (Mms):	25 gr
Equivalent Cas air loaded (Vas):	33.00 liters
Effective piston area (Sd):	0.04 m ²
Max. linear excursion (Xmax):	5 mm
Voice coil inductance @ 1kHz (Le1k):	0.50 mH
Half-space efficiency (Eff):	3.90%

General specifications driver

Exit Throat Diameter:	1.0 inch / 25 mm
Related Impedance:	8.00 ohm
Program Power (watt):	100 W
Power handling capacity (watt):	50 W
Sensitivity:	105 dB
Frequency range driver:	1200 - 20000 Hz
Diaphragm Material:	Polymide
Suspension Material:	Polymide
Suspension Design:	Flat
Minimum Impedance (ohm):	6.50 ohm
Voice Coil Diameter driver:	1.75 inch / 44 mm
Voice Coil Material:	Edgewound Aluminium
Number of layers:	1.00
Kind of layers:	outside
Flux Density:	1.60 T
Phase Plug Design:	2 slot
Phase Plug Material:	PP Composite
Magnetics:	Ceramic

General specifications horn

Throat Diameter:	25 mm / 1 inch
Horizontal coverage angle:	60°
Vertical coverage angle:	60°
Cut-off Frequency:	1800 Hz
Material:	Structural Polyurethane

Mounting informations

Overall diameter:	260 mm / 10.24 inches
Bolt circle diameter:	241-246 mm / 9.49-9.69 inch
Bolt hole diameter:	6 mm / 0.24 inch
Front mount baffle cut-out:	232 mm / 9.13 inch
Rear mount baffle cut-out:	232 mm / 9.13 inch
Volume occupied by the driver:	2.5 liters / 0.1 ft ³

Standard compliance

CE marking:	Yes
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Size

Height:	144 mm / 5.67 inches
Diameter:	260 mm / 10.24 inches
Weight:	6 kg / 13.23 lbs

Shipping informations

Package Height:	199 mm / 7.83 inches
Package Width:	294 mm / 11.57 inches
Package Depth:	279 mm / 10.98 inches
Package Weight:	7 kg / 15.43 lbs



PART NUMBER

- **11100097**

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