

CX15N251

COAXIAL

DESCRIPTION

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 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
- 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
- 100 Watt Continuous program power handling HF
- 1.75-inch Diaphragm, 1.0-inch Exit Throat
- Frequency range: 1200Hz 20kHz



TECHNICAL SPECIFICATIONS

General specifications Nominal Diameter: 15 inch / 381 mm

Related Impedance: 8.00 ohm

Program Power (watt): 600 W

Power handling capacity (watt): 300 W

Sensitivity: 101.0 dB

Frequency range: 50 - 3000 Hz

Effective piston diameter: 330 mm / 12.99 inch
Max. Excursion Before Damage: 30 mm / 1.18 inch

Minimum Impedance (ohm): 6.4 ohm

Voice Coil Diameter: 2.5 inch / 63 mm
Voice Coil Material: Aluminium

Voice Coil Winding Depth: 0.55 inch / 14 mm

Number of layers:

Kind of layers: outside

Top Plate Thickness: 8 mm / 0.31 inch

Cone Design: Curved
Surround Material: Polycotton
Surround Design: Triple roll
Magnets: Neodymium

Dual-force air ventilation: Yes

Demodulation Rings material: Aluminium
Spider: Single

Thiele - small parameters Resonance frequency (Fs): 55 Hz

DC resistance (Re) (ohm): 5.20 ohm Mechanical factor: 8.00 Qms Electrical factor: 0.37 Qes Total factor: 0.35 Qts BI factor (BI) (T x m): 18.10 T x m Effective moving mass (Mms): 71.0 g Equivalent Cas air loaded (Vas): 136.0 liters 0.090 m2 Effettive piston area (Sd): Max. linear excursion (Xmax): 5.0 mm Voice coil inductance @ 1kHz (Le1k): 1.20 mH Half-space efficency (Eff): 5.00%



| 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: | 109 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: | 1.9 T |
| | Phase Plug Design: | 2 slot |
| | Phase Plug Material: | PP Composite |
| | Magnetics: | Neodymium |
| 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: | 388 mm / 15.28 inches |
| | Bolt circle diameter: | 369-373 mm / 14.53-14.69 inch |
| | Bolt hole diameter: | 6 mm / 0.24 inch |
| | Front mount baffle cut-out: | 357 mm / 14.06 inch |
| | Rear mount baffle cut-out: | 358 mm / 14.09 inch |
| | Volume occupied by the driver: | 2.9 liters / 0.11 ft3 |
| Standard compliance | CE marking: | Yes |
| Size | Height: | 174 mm / 6.85 inches |
| | Diameter: | 388 mm / 15.28 inches |
| | Weight: | 4.29 kg / 9.46 lbs |
| Shipping informations | Package Height: | 240 mm / 9.45 inches |
| | Package Width: | 440 mm / 17.32 inches |
| | Package Depth: | 440 mm / 17.32 inches |
| | Package Weight: | 5.9 kg / 13.01 lbs |



PART NUMBER

· 11100070

CX15N251

8ohm









