



KEY FEATURES:

- 96 db SPL 1W / 1m (LF) average sensitivity
- 51 mm (2") high temperature voice coil (LF)
- 400 W AES program power (LF)
- Double aluminium demodulating rings
- Single magnet assembly
- Water protected cone (front)
- 1" exit HF compression driver
- 44 mm (1.75") HF high temperature voice coil
- 90 degrees nominal dispersion

PART NUMBER: 12110F0108

Application: Compact reflex boxes.

Description: The 10CX is a 10" / 1" coaxial transducer designed for use in compact reflex enclosures with a nominal dispersion of 90 degrees. The low profile, smooth curvilinear LF cone provides smooth response within its intended frequency range and water prove protective coating, allowing application in a wide range of environments. The state-of-the-art 51 mm (2 in) LF voice coil has glassfiber former, which together with high temperature resistant resin ensure high reliability by high power.

A double aluminium demodulating rings reduce distortion and inductance and improve transient response. The special cone made of cellulose with carbon fibers improves waterfall response.

The 1" exit compression driver adopted is our D2544 model.

The HF driver diaphragm assembly, using triple layer polyester dome this together with phasing plug improve linearity of frequency response in high end.

Because of design with single magnet assembly the speaker has light weight and compact size.





SPECIFICATIONS

Nominal Diameter 263 mm (10 inch) Impedance LF 8 Ohm / HF 16 Ohm Frequency Range 65 - 20000 Hz Dispersion angle 90 deg

LF unit

Sensitivity (200-2000 Hz) 96 dB/W/m Minimum Impedance 6.24 Ohm Power Capacity AES ¹ 200 W Program Power ² 400 W Voice Coil Diameter 51 mm (2 in) Voice Coil Material Cooper Voice Coil Former Glassfiver V. C. Winding Depth 13 mm Magnet Gap Depth 9 mm Cone Material Paper with carbon fibers Basket Die cast aluminium Magnet Ferrite Flux Density 0.91 T

HF unit

Sensitivity (200-2000 Hz) 107 dB/W/m Minimum Impedance 12.59 Ohm DC resistance 10.53 Ohm Power Capacity (1-20 kHz) 40 W Program power 80 W Voice Coil Diameter 44 mm (1.75 in) Voice Coil Material CCAW* Diaphragm material Sandwich polyester Flux Density 1.9 T

THIELE-SMALL PARAMETERS

Fs 64.22 Hz Qms 11.11 Qes 0.39 Qts 0.38 Vas 32.32 Litres Mms 27.25 grams Re 5.2 Ohms Sd 297 cm2 Xmax* ± 4.25 mm Cms 0.2254 mm/N BL 12.05 T.m Le at 1kHz 0.68 mH

MOUNTING INFORMATION

Overall Diameter 263 mm Baffle Hole Diameter 225 mm Mounting Holes 7 mm Bolt Circle Diameter 244 mm Depth 141 mm Net Weight 4.5 kg

SERVICE KITS:

LF - Recone kit: RK10CX part No: R2110F0108 **HF - Diaphragm**: NDA45-16 part No: R411700316

- 1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 30 L box enclosure tuned 60 Hz using a 50-1000 Hz band limited pink noise test signal applied continuously for 2 hours.
- 2. Program power is defined as 3db greater than AES Power Capacity.
- * Copper Clad Aluminium Wire
- * Linear Mathematical Xmax is calculated as: (Hvc Hq)/2 + Hq/4 where Hvc is the voice coil depth and Hq is the qap depth.





Frequency Responce



