



## **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 neodymium magnet assembly
- Water protected cone
- 1" exit HF neodymium compression driver
- 44 mm (1.75") HF high temperature voice coil
- 80 degrees nominal dispersion
- Very light weight

Application: Stage monitors and compact bass reflex boxes.

### **Description:**

The 10NCX1 is a 10" / 1" coaxial transducer designed for use in compact reflex enclosures and stage monitors with a nominal dispersion of 80 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 Kapton former, which together with high temperature resistant resin ensure high reliability by high power.

Double aluminium demodulating rings on the magnet structure reduce distortion and inductance and improve transient response.

The neodymium 1" exit compression driver adopted is our ND2545 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 of single magnet assembly the speaker has low weight and compact size.





## **SPECIFICATIONS**

Nominal Diameter 262 mm (10 inch) Impedance LF 8 Ohm / HF 16 Ohm Frequency Range 60 - 20000 Hz Dispersion angle 80 deg

# LF unit

Sensitivity (200-2000 Hz) 96 dB/W/m Minimum Impedance 6.01 Ohm Power Capacity AES <sup>1</sup> 200 W Program Power <sup>2</sup> 400 W Voice Coil Diameter 51 mm (2 in) Voice Coil Material Cooper Voice Coil Former Kapton V. C. Winding Depth 14 mm Magnet Gap Depth 9 mm Cone Material Paper Basket Die cast aluminium Magnet Neodymium Flux Density 0.90 T

# <u>HF unit</u>

Sensitivity (200-2000 Hz) 106 dB/W/m Minimum Impedance 12.37 Ohm DC resistance 10.6 Ohm Power Capacity (1-15 kHz) 40 W Program power 80 W Voice Coil Diameter 44 mm (1.75 in) Voice Coil Material Aluminium Diaphragm material Sandwich polyester Flux Density 1.9 T

# THIELE-SMALL PARAMETERS

Fs 67.95 Hz Qms 9.96 Qes 0.428 Qts 0.428 Vas 11.98 Litres Mms 26.9 grams Re 5.35 Ohms Sd 317.3 cm2 Xmax\* ± 4.75 mm Cms 0.204 mm/N BL 11.98 T.m Le at 1kHz 0.836 mH

#### **MOUNTING INFORMATION**

Overall Diameter 263 mm Baffle Hole Diameter 225 mm Mounting Holes 7 mm Bolt Circle Diameter 244 mm Depth 138 mm Net Weight 2.7 kg

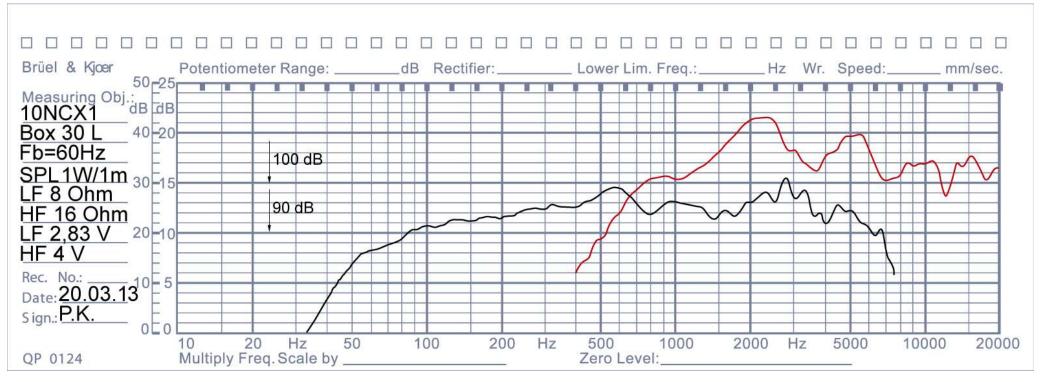
1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 30 L box enclosure tuned 60 Hz using a 50-1000 Hz band limited pink noise test signal applied continuously for 2 hours.

2. Program power is defined as 3db greater than AES Power Capacity.

\* Linear Mathematical Xmax is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg is the gap depth.







Frequency Responce





Drawings

