15NCX910BE 8Ω

Coaxials - 15.0 Inches

- 99.5 dB LF / 109 dB HF SPL 1W/1m average sensitivity
- 900W LF - 240W HF maximum program power handling
- Single magnet neodymium motor
- 75 mm (3") Interleaved Sandwich LF Voice coil (ISV)
- Aluminum Demodulating Ring (SDR) for minimum LF distortion
- 75 mm (3") HF Pure Beryllium diaphragm with polymer surround.
- Edge-wound Aluminum HF voice coil (EWAL)
- HF copper sleeve for reduced distortion and higher output
- 80 degrees nominal conical dispersion
- Suitable for very compact enclosures and highest quality stage monitors

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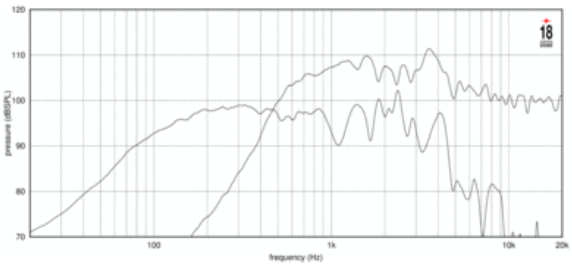
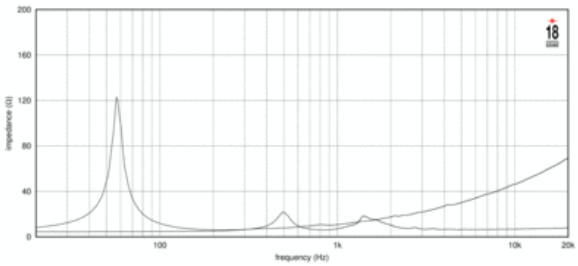
Coaxials - 15.0 Inches

The 15NCX910BE is a 15" diameter neodymium coaxial transducer designed for use in compact reflex enclosures and stage monitors as small as 50 lt with a nominal dispersion of 80 degrees equipped with a state of the art Beryllium dome for the high frequency section.
The curvilinear profile LF cone provides smooth response within its intended frequency range thanks to its high damping pulp composition.
The 75 mm (3 in) LF copper voice coil employs our Interleaved Sandwich Voice coil (ISV) technology, in which a high strength former carries windings on both the outer and inner surfaces. This results in a balanced coil with a uniform distribution of mass and motive energy and an extremely linear motor assembly.
The low distortion and sound quality are further improved by an aluminum demodulating ring (SDR technology) that flatten LF impedance and phase with a constant power transfer. Equipped with proprietary architecture, the integrated HF compression driver has been designed to give smooth coherent wavefront in the horn entrance in all working frequency range and high level manufacturing consistency, assuring low distortion and remarkable improvements in mid-high frequency reproduction. A copper ring on the pole piece reduces the inductance figure of frequencies above 10 kHz, improving phase and impedance linearisation.
The 3" diameter Beryllium/polymer HF diaphragm assembly is capabel of double the stiffness of titanium reducing drastically resonances and distortion.
A specific HF exit profile design has been chosen in order to maximize the cone’s profile coupling
Due to the widespread use of high power audio systems at outdoor events, the ability to perform in adverse weather conditions is an additional key feature of the 15NCX910BE. This has been achieved using exclusive cone and magnet plate treatment processes which increase resistance against corrosion and make the cone water repellent.





15NCX910BE 8Ω

Coaxials - 15.0 Inches

SPECIFICATIONS

Nominal Diameter	380 mm (15.0 in)
Nominal Impedance	8 Ω
Minimum Impedance LF	6.5 Ω
Frequency Range	50 - 4000 Hz
Dispersion Angle[1]	80 °

SPECIFICATIONS LF UNIT

LF Sensitivity[2]	99.5 dB
LF Nominal Power Handling[3]	450 W
LF Continuous Power Handling[4]	900 W
LF Voice Coil Diameter	75 mm (3.0 in)
LF Winding Material	- Copper -

SPECIFICATIONS HF UNIT

HF Sensitivity[5]	109.0 dB
HF Nominal Power Handling[6]	120 W
HF Continuous Power Handling[7]	240 W
HF Voice Coil Diameter	75 mm (3.0 in)
HF Winding Material	Edge wound CCAW
Recommended Crossover[8]	1.2 kHz

PARAMETERS

Resonance Frequency	55 Hz
Re	5.0 Ω
Qes	0.34
Qms	8.2
Qts	0.33
Vas	107.0 dm^3 (3.78 ft^3)
Sd	881.0 cm^2 (136.56 in^2)
η_0	5.0 %
Xmax	7.0 mm
Mms	86.0 g
Bl	21.0 Txm
Le	1.1 mH
EBP	161 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	393 mm (15.47 in)
Bolt Circle Diameter	371 mm (14.61 in)
Baffle Cutout Diameter	360 mm (14.17 in)
Depth	205 mm (8.07 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Net Weight	6.5 kg (14.33 lb)
Shipping Weight	7.0 kg (15.43 lb)
Shipping Box	405 x 405 x 260 mm (15.94x15.94x10.24 in)

1. Included by –6 dB down points.
2. Applied RMS Voltage is set to 2.83V.
3. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
4. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
5. Applied RMS Voltage is set to 2.83V.
6. 2 hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated nominal impedance. Loudspeaker in free air.
7. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
8. 12 dB/oct. or higher slope high-pass filter.