



- 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 TPM Nitride coat titanium
- 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

The 15NCX910N 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 Nitride coat titanium dome for the high frequency section.

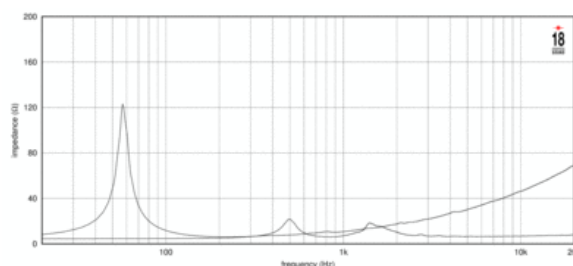
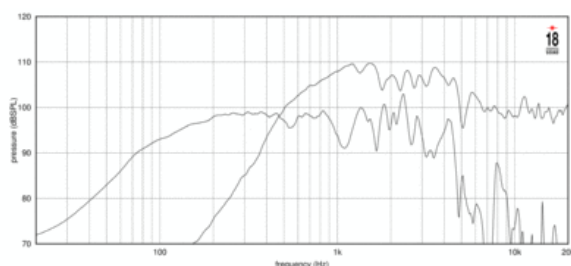
The curvilinear profile LF cone provides smooth response within its intended frequency range thanks to its high damping pulp composition.

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 pure titanium diaphragm assembly, treated with the 18sound proprietary Nitride coat is increasing 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 15NCX910N. This has been achieved using exclusive cone and magnet plate treatment processes which increase resistance against corrosion and make the cone water repellent.





15NCX910N 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 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 Aluminum |
| Diaphragm Material | Titanium |
| Recommended Crossover ⁸ | 1.2 kHz |

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) |

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 _o | 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.