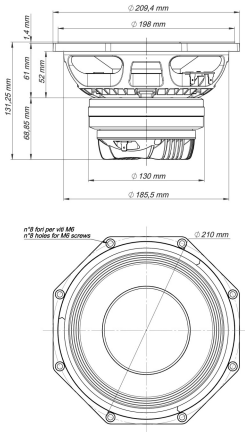
8NCX750N 8Ω

Coaxials - 8.0 Inches





- 98 dB LF / 105 dB HF SPL 1W/1m average sensitivity
- Single magnet neodymium motor
- 600W LF - 140W HF program power handling
- 75 mm (3”) LF Interleaved Sandwich Voice coil (ISV)
- Aluminum demodulating ring (SDR) for minimum LF distortion
- True Piston Motion (TPM) Nitride coated dome.
- 60 mm (2.4”) HF Nitride coated titanium diaphragm (TPM)
- Edge-wound Aluminum ribbon HF voice coil (EWAL)
- HF copper sleeve for reduced distortion and higher output
- 80° nominal coverage
- Suitable for very compact enclosures and stage monitor
- Proprietary Phase Plug (3P)

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8NCX750N 8Ω

Coaxials - 8.0 Inches

The 8NCX750N is a 8" neodymium coaxial transducer designed for use in compact reflex or sealed enclosures and stage monitors as small as 5lt with a nominal dispersion of 80 degrees.

The straight profile LF cone provides smooth response within its intended frequency range thanks to its high damping pulp composition. The 75mm (3in) LF copper voice coil employs 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 flattens LF impedance and phase with constant power transfer.

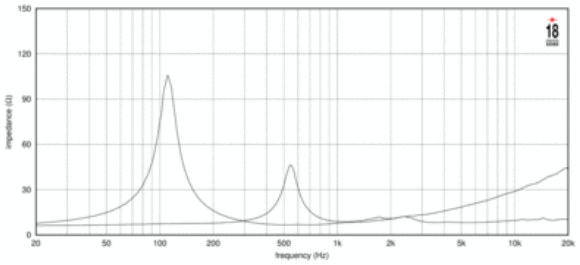
Equipped with a proprietary hybrid radial tangerine phase plug, the integrated HF compression driver has been designed to give a smooth, coherent wavefront at the horn entrance in all working frequency ranges with an high level of manufacturing consistency. The phase plug, with its short openings and high flare rate value, assures low distortion and remarkable improvements in mid-high frequency reproduction. A copper sleeve reduces the inductance value above 10kHz, improving phase and impedance linearization.

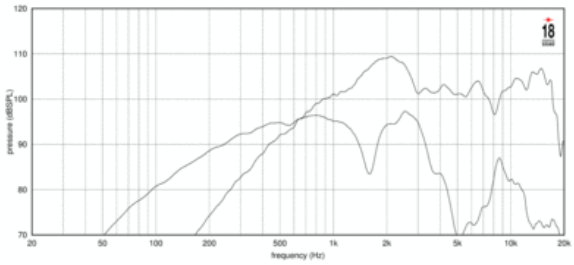
The 2.4" diameter HF diaphragm assembly uses a high strength, high temperature treated Nomex voice coil former joined directly to the titanium diaphragm on its upper bend edge, assuring extended frequency energy transfer. The domes use our proprietary True Piston Motion - TPM - technology, based on a thin film nitride coating deposit over the titanium diaphragm. The thin film is just several micron thick and is realized in a PVD - Physical Vapour Deposition - vacuum chamber. With its very high value of elasticity modulus (six times higher than titanium and two times higher than beryllium), the Tin coated Titanium diaphragm is capable of doubling the diaphragm overall stiffness with obvious benefits in terms of impulse response and intermodulation distortion reduction. The frequency response is then extended by 25%, showing a predictable, ideal pistonic behaviour, avoiding top-end spurious resonances.

This improves linearity and shows unparalleled reliability when compared with a straight former joint. A specific HF exit profile design has been chosen in order to maximize the cone’s profile coupling.

The high force neodymium single magnet structure makes the 8NCX750 a lightweight speaker for its performance class - only 3.9KG.

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 8NCX750N. This has been achieved using exclusive cone and magnet plate treatment processes which increase resistance against corrosion and make the cone water repellent.





8NCX750N 8Ω

Coaxials - 8.0 Inches

SPECIFICATIONS

Nominal Diameter	200 mm (8.0 in)
Nominal Impedance	8 Ω
Minimum Impedance LF	6.2 Ω
Minimum Impedance HF	8.0 Ω
Frequency Range	90 - 1600 Hz
Dispersion Angle[1]	80 °
Woofer Cone Treatment	Water repellent
Magnet Material	Neodymium

SPECIFICATIONS LF UNIT

LF Sensitivity[2]	98.0 dB
LF Nominal Power Handling[3]	300 W
LF Continuous Power Handling[4]	600 W
LF Voice Coil Diameter	75 mm (3.0 in)
LF Winding Material	- Copper -
Winding Depth	12.0 mm (0.47 in)
Magnetic Gap Depth	7.6 mm (0.3 in)

SPECIFICATIONS HF UNIT

HF Sensitivity[5]	105.0 dB
HF Nominal Power Handling[6]	70 W
HF Continuous Power Handling[7]	140 W
HF Voice Coil Diameter	64 mm (2.5 in)
HF Winding Material	Edge wound CCAW
Diaphragm Material	Nitride coated titanium
Recommended Crossover[8]	1.2 kHz

PARAMETERS

Resonance Frequency	105 Hz
Re	5.3 Ω
Qes	0.23
Qms	6.25
Qts	0.23
Vas	6.2 dm^3 (0.22 ft^3)
Sd	227.0 cm^2 (35.19 in^2)
η_0	2.9 %
Xmax	4.0 mm
Xvar	3.0 mm
Mms	27.0 g
Bl	20.2 Txm
Le	0.53 mH
EBP	456 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	210 mm (8.27 in)
Bolt Circle Diameter	186 mm (7.32 in)
Baffle Cutout Diameter	186 mm (7.32 in)
Depth	132 mm (5.2 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Net Weight	3.95 kg (8.71 lb)
Shipping Weight	4.5 kg (9.92 lb)
Shipping Box	223x232x176 mm (8.78x9.13x6.93 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.