10NCX750

Neo Coaxial

General specifications

	LF	HF
Nominal Diameter	260 mm (10 in)	
Nominal Impedance	8 Ω	
AES Power (1)	400 W	60 W
Program Power (2)	800 W	120 W
Sensitivity (3)	97.2 dB	107.6 dB
Frequency Range	50 ÷ 1500 Hz	1200 ÷ 20000 Hz
LF max | HF min. recomm. freq.	1300 Hz	1200 Hz
Recomm. enclosure volume	25 ÷ 30 L	
Minimum Impedance	6.5 Ω	8.1 Ω
Max peak to peak excursion	25 mm	
Voice coil diameter	75 mm (3 in)	60 mm (2.4 in)
Voice coil winding material	Copper	CCAW
Suspension	Triple Roll, Polycotton	Titanium
Cone | Dome	Straight, Treated Paper	Titanium

Thiele-Small parameters[4]

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Fs	57 Hz
Re	5.4 Ω
Sd	346 sq.cm (54 sq.in)
Qms	5.2
Qes	0.24
Qts	0.23
Vas	28.5 L (1.00 cu.ft)
Mms	46 g (0.10 lb)
Bl	19.5 Tm
Xmax[5]	±5.5 mm (±0.22 in)
Xvar[6]	±6 mm (±0.24 in)
Le (1KHz)	0.50 mH
Ref. Efficiency (half space)	2.2 %

Mounting information

Overall diameter	260 mm (10.2 in)
Nr. of mounting holes	6
Mounting holes diameter	6.2 mm (0.24 in)
Bolt circle diameter	243.5 ÷ 246.5 mm (9.6 ÷ 9.7 in)
Baffle cutout diameter	232 (9.1 in)
Total depth	169 mm (6.7 in)
Flange and gasket thickness	9.5 mm (0.4 in)
Net weight	4.3 kg (9.5 lb)
Shipping weight	4.7 kg (10.4 lb)

Frequency response measured in 260 l reference closed box, on axis at 1 m distance, in free field (4π) with 2.83 V$_{rms}$

Free air Impedance curve

Technologies

LF: SDR Single Demodulating Ring, ISV Interleaved Sandwich Voice Coil

HF: Neodymium Magnet, Edgewound CCAW Voice Coil, Proprietary Phase Plug Design
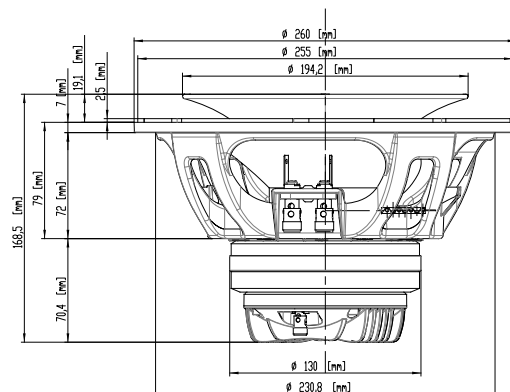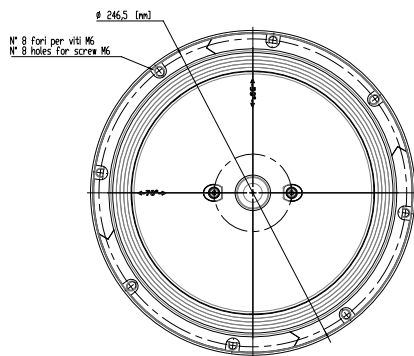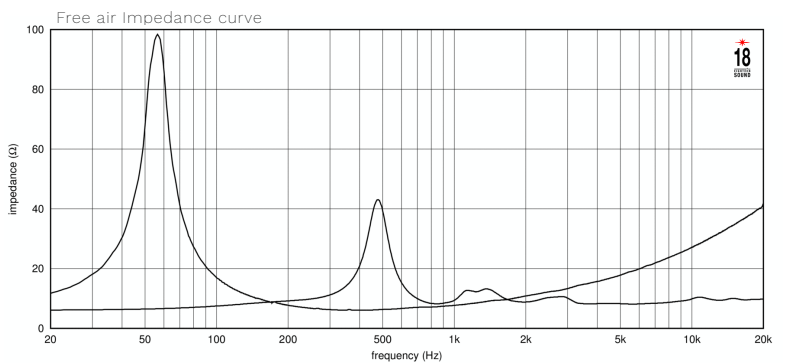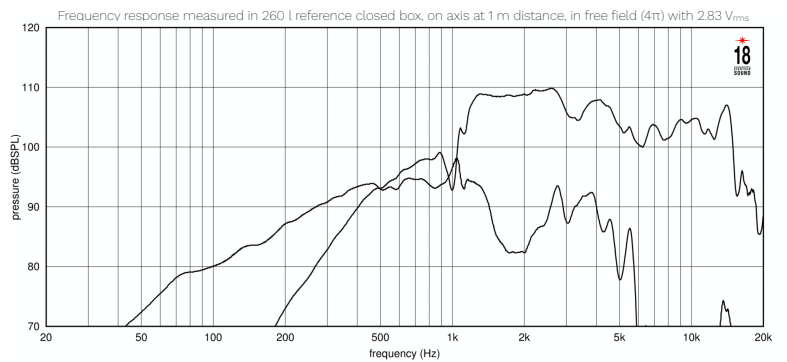
(1)AES power is determined according to AES2-1984 standard. (2)Program Power is defined as 3 dB greater than the AES Power. (3)Reference efficiency in dBSPL when driven with 2.00 V$_{rms}$. (4)Thiele-Small parameters are measured after the test specimen has been conditioned for 2 hours by a 20 Hz sinusoidal input signal and represent the expected long term parameters after a short period of use. (5)Linear Mathematical Xmax is calculated as: (Hvc-Hg)/2 + Hg/4 where Hvc is the coil depth and Hg is gap depth. (6)Xvar represents the displacement value where force factor or suspension compliance drops to 50% of their small signal value.