



12" NEO Woofer

Program Power	450 W
Rated impedance	4 Ohm
Nominal diameter	12"- 320 mm
Sensitivity (2,83V/1m)	100,5 dB
Voice coil diameter	2 in - 50 mm
Frequency Range	50-4000 Hz

SPECIFICATIONS

Nominal Diameter	12"- 320 mm
Rated Impedance	4 Ohm
Nominal Power Handling ¹	220 W
Program Power ²	450 W
Sensitivity ³	100,5 dB
Frequency Range ⁴	50-4000 Hz
Minimum Impedance	-
Basket Material	Aluminum
Magnet Material	Neodymium
Cone Material	Doped cellulose fiber
Cone Shape	Exponential
Surround	Nomex Fabric
Suspension	Nomex Fabric
Voice Coil Diameter	2 in - 50 mm
Voice Coil Winding Material	Copper
Voice Coil Length	13,5 mm - 0,53 in
Voice Coil Former Material	Glass fiber
Connection type	-
Ferrofluid	No
Magnetic Gap Height	8 mm - 0,31 in
Max. Peak to Peak Excursion	-
Efficiency Bandwidth Product EBP	120
Recommended Loading	Vented Box
Volume / Tuning frequency	60 Lt (dm³) - 2,119 cuft / 53 Hz
Maximum recommended frequency	-
Alternative Available Version	8 Ohm

T/S PARAMETERS

4 Ohm

Resonance frequency	Fs	53 Hz
DC Resistance	Re	2,8 Ohm
Mechanical Q Factor	Qms	13,5
Electrical Q Factor	Qes	0,44
Total Q Factor	Qts	0,43
BI Factor	BI	10,6 Tm
Effective Moving Mass	Mms	54 g
Equivalent Cas air loaded	Vas	70 lt (dm³) - 2,47 cuft
Suspension Compliance	Cms	-
Effective Piston Diameter	D	264 mm - 10,39 in
Effective piston area	Sd	547 cm² - 84,79 sq in
Max. Linear Excursion ⁵	Xmax	5 mm - 0,2 in
Voice Coil Inductance @ 1kHz	Le	0,6 mH
Half-space Efficiency	η0	2,3 %

NOTES

¹ Nominal power is determined according to AES2-1984 (r2003) standard.

² Program Power is defined as 3 dB greater than the Nominal rating.

³ Sensitivity represents the averaged value of acoustic output as measured on the forward central axis of cone, at distance 1m, when connected to 2,83V sine wave test signal.

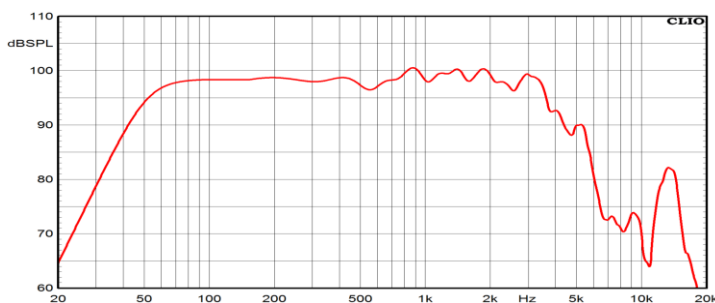
⁴ Frequency range is given as the band of frequencies delineated by the lower and upper limits where the output level drops by 10 dB below the rated sensitivity in half space environment.

⁵ Linear Math. Xmax is calculated as (Hvc-Hg)/2 + Hg/4 where Hvc is the coil depth and Hg is the gap depth.

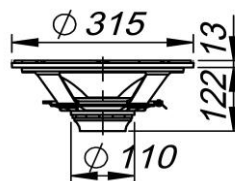
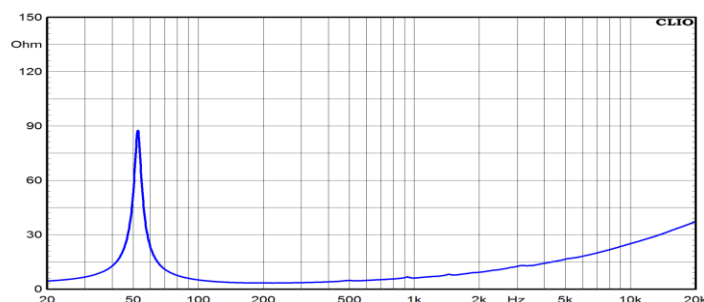
⁶ Frequency response curve in the range above 150 Hz is measured on infinite baffle conditions and simulated as per recommended loading in the range below 150 Hz.

⁷ Impedance curve is measured in free air conditions at small signals.

FREQUENCY RESPONSE CURVE ⁶



FREE AIR IMPEDANCE CURVE ⁷



MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm - 12,4 in
Baffle Cutout Diameter	282 mm - 11,1 in
Flange and Gasket Thickness	13 mm - 0,51 in
Total Depth	135 mm - 5,31 in
Bolt Circle Diameter	295 mm - 11,61 in
Bolt Holes Quantity and Diameter	8 / 7 mm - 0,28 in
Net Weight	2,7 Kg - 5,95 lb
Shipping Units	1 Pc