HWL100

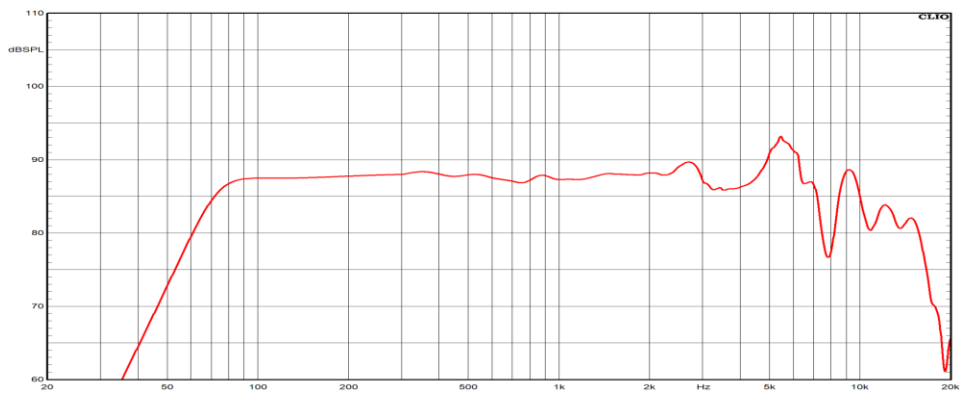
4” Ceramic Woofer

Program Power	**150 W**
Rated impedance	**8 Ohm**
Nominal diameter	**4”- 100 mm**
Sensitivity (2,83V/1m)	**89 dB**
Voice coil diameter	**1 in - 25 mm**
Frequency Range	**70-10.000 Hz**

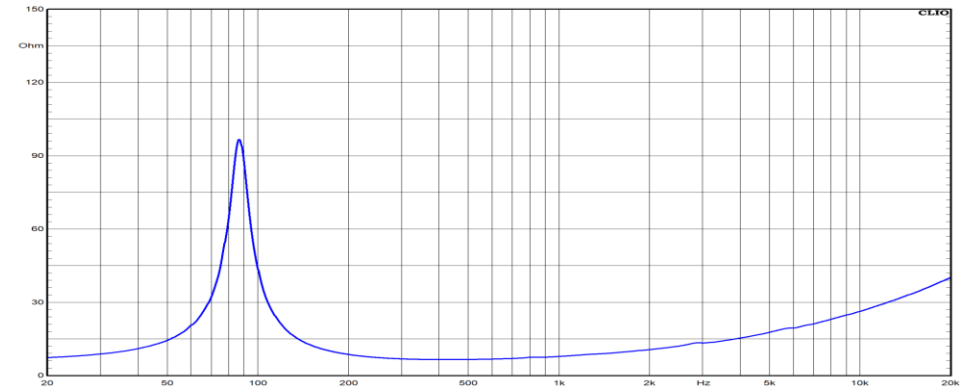
SPECIFICATIONS

Nominal Diameter	4”- 100 mm
Rated Impedance	8 Ohm
Nominal Power Handling [1]	75 W
Program Power [2]	150 W
Sensitivity [3]	89 dB
Frequency Range [4]	70-10.000 Hz
Minimum Impedance	-
Basket Material	Steel
Magnet Material	Ferrite + Neo
Cone Material	Doped cellulose fiber
Cone Shape	Exponential
Surround	Rubber
Suspension	Fabric
Voice Coil Diameter	1 in - 25 mm
Voice Coil Winding Material	Copper
Voice Coil Length	11 mm - 0,43 in
Voice Coil Former Material	Kapton
Connection type	Faston
Ferrofluid	No
Magnetic Gap Height	6 mm - 0,24 in
Max. Peak to Peak Excursion	-
Efficiency Bandwidth Product EBP	200
Recommended Loading	Vented Box
Volume / Tuning frequency	2,5 Lt (dm³) - 0,088 cuft / 50 Hz
Maximum recommended frequency	-

FREQUENCY RESPONSE CURVE [6]



FREE AIR IMPEDANCE CURVE [7]



T/S PARAMETERS

8 Ohm

Resonance frequency	Fs	86 Hz
DC Resistance	Re	5,6 Ohm
Mechanical Q Factor	Qms	7,07
Electrical Q Factor	Qes	0,43
Total Q Factor	Qts	0,4
Bl Factor	Bl	5,83 Tm
Effective Moving Mass	Mms	4,83 g
Equivalent Cas air loaded	Vas	2,6 lt (dm³) - 0,09 cuft
Suspension Compliance	Cms	0,69 mm/N
Effective Piston Diameter	D	81 mm - 3,19 in
Effective piston area	Sd	51 cm² - 7,9 sq.in
Max. Linear Excursion [5]	Xmax	4 mm - 0,16 in
Voice Coil Inductance @ 1kHz	Le	0,48 mH
Half-space Efficency	ŋ0	0,37 %

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	116 mm - 4,57 in
Baffle Cutout Diameter	95 mm - 3,74 in
Flange and Gasket Thickness	3,5 mm - 0,14 in
Total Depth	70,5 mm - 2,78 in
Bolt Circle Diameter	107,5 mm - 4,23 in
Bolt Holes Quantity and Diameter	4 / 4 mm - 0,157 in
Net Weight	0,93 Kg - 2,05 lb
Shipping Units	12 Pcs

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 gapdepth.
[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.