



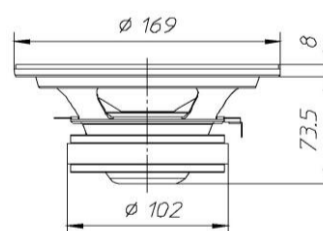
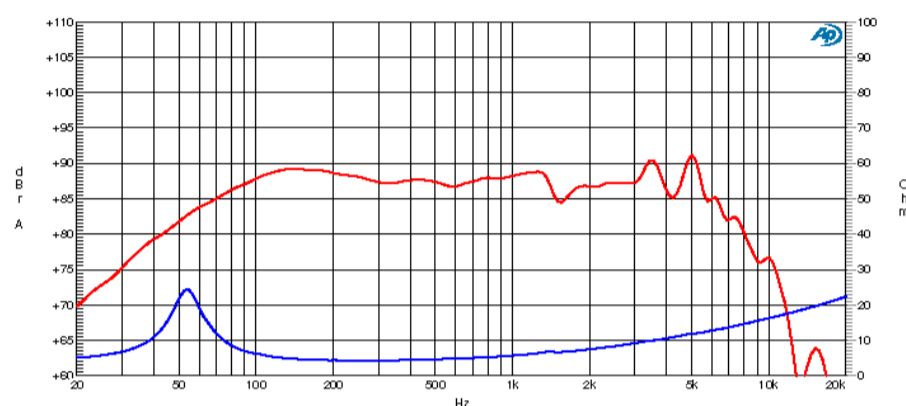
6,5" Ceramic Woofer

Program Power	180 W
Rated impedance	4 Ohm
Nominal diameter	6,5" - 165 mm
Sensitivity (1W/1m)	90 dB
Voice coil diameter	1,25 in - 32 mm
Frequency Range	45-5000 Hz

SPECIFICATIONS

Nominal Diameter	6,5" - 165 mm	
Rated Impedance	4 Ohm	
Nominal Power Handling ¹	80 W	
Program Power ²	180 W	
Sensitivity ³	90 dB	
Frequency Range ⁴	45-5000 Hz	
Minimum Impedance	-	
Basket Material	Steel	
Magnet Material	Ferrite	
Cone Material	-	
Cone Shape	-	
Surround	Rubber	
Suspension	-	
Voice Coil Diameter	1,25 in - 32 mm	
Voice Coil Winding Material	-	
Voice Coil Length	11 mm - 0,43 in	
Voice Coil Former Material	Aluminum	
Connection type	-	
Ferrofluid	No	
Magnetic Gap Height	6 mm - 0,24 in	
Max. Peak to Peak Excursion	-	
Efficiency Bandwidth Product EBP	124	
Recommended Loading	Vented Box	
Volume / Tuning frequency	13 Lt (dm ³) - 0,459 cuft / 62 Hz	
Maximum recommended frequency	-	
Alternative Available Version	8 Ohm	HW161N

FREQUENCY RESPONSE AND IMPEDANCE CURVE ^{6 7}



T/S PARAMETERS

4 Ohm

Resonance frequency	Fs	52 Hz
DC Resistance	Re	3,6 Ohm
Mechanical Q Factor	Qms	2,24
Electrical Q Factor	Qes	0,42
Total Q Factor	Qts	0,35
BI Factor	Bl	6,07 Tm
Effective Moving Mass	Mms	13,05 g
Equivalent Gas air loaded	Vas	17,4 lt (dm ³) - 0,61 cuft
Suspension Compliance	Cms	0,7 mm/N
Effective Piston Diameter	D	130 mm - 5,12 in
Effective piston area	Sd	133 cm ² - 20,62 sq in
Max. Linear Excursion ⁵	Xmax	4 mm - 0,16 in
Voice Coil Inductance @ 1kHz	Le	0,44 mH
Half-space Efficiency	η0	0,58 %

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	169 mm - 6,65 in
Baffle Cutout Diameter	142 mm - 5,59 in
Flange and Gasket Thickness	8 mm - 0,31 in
Total Depth	81,5 mm - 3,21 in
Bolt Circle Diameter	158 mm - 6,22 in
Bolt Holes Quantity and Diameter	4 / 5 mm - 0,2 in
Net Weight	1,4 Kg - 3,08 lb
Shipping Units	6 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 is measured on infinite baffle conditions.

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