HW210

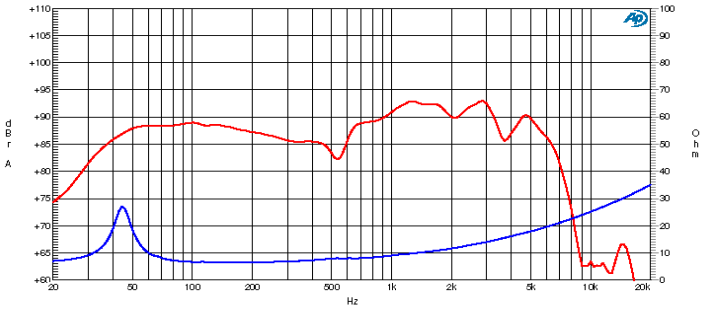
8'' Ceramic Woofer

Program Power	**150 W**
Rated impedance	**8 Ohm**
Nominal diameter	**8''- 200 mm**
Sensitivity (2,83V/1m)	**90 dB**
Voice coil diameter	**1 in - 25 mm**
Frequency Range	**30-6000 Hz**

SPECIFICATIONS

Nominal Diameter	8''- 200 mm
Rated Impedance	8 Ohm
Nominal Power Handling [1]	60 W
Program Power [2]	150 W
Sensitivity [3]	90 dB
Frequency Range [4]	30-6000 Hz
Minimum Impedance	-
Gasket Material	Steel
Magnet Material	Ferrite
Cone Material	Treated Cellulose
Cone Shape	-
Surround	Rubber
Suspension	-
Voice Coil Diameter	1 in - 25 mm
Voice Coil Winding Material	-
Voice Coil Length	12,5 mm - 0,49 in
Voice Coil Former Material	Aluminum
Connection type	-
Ferrofluid	No
Magnetic Gap Height	4 mm - 0,16 in
Max. Peak to Peak Excursion	-
Efficiency Bandwidth Product EBP	39
Recommended Loading	Sealed box
Volume / Tuning frequency	70 Lt (dm³)- 2,472 cuft
Maximum recommended frequency	-

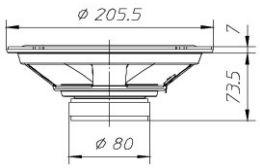
FREQUENCY RESPONSE AND IMPEDANCE CURVE [6] [7]



T/S PARAMETERS

8 Ohm

Resonance frequency	Fs	41 Hz
DC Resistance	Re	6 Ohm
Mechanical Q Factor	Qms	4,4
Electrical Q Factor	Qes	1,04
Total Q Factor	Qts	0,84
Bl Factor	Bl	5,18 Tm
Effective Moving Mass	Mms	18,09 g
Equivalent Cas air loaded	Vas	57,6 lt (dm³) - 2,03 cuft
Suspension Compliance	Cms	0,84 mm/N
Effective Piston Diameter	D	168 mm - 6,61 in
Effective piston area	Sd	222 cm² - 34,41 sq in
Max. Linear Excursion [5]	Xmax	4,25 mm - 0,17 in
Voice Coil Inductance @ 1kHz	Le	0,55 mH
Half-space Efficency	ŋ0	0,36 %



MOUNTING AND SHIPPING INFORMATION

Overall Diameter	205,5 mm - 8,09 in
Baffle Cutout Diameter	183 mm - 7,2 in
Flange and Gasket Thickness	7 mm - 0,28 in
Total Depth	80,5 mm - 3,17 in
Bolt Circle Diameter	194 mm - 7,64 in
Bolt Holes Quantity and Diameter	4 / 5 mm - 0,2 in
Net Weight	1,11 Kg - 2,44 lb
Shipping Units	4 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.