



## 12" Ceramic Woofer

Program Power	400 W
Rated impedance	8 Ohm
Nominal diameter	12"- 320 mm
Sensitivity (2,83V/1m)	93 dB
Voice coil diameter	2 in - 50 mm
Frequency Range	25-2500 Hz

### SPECIFICATIONS

Nominal Diameter	12"- 320 mm
Rated Impedance	8 Ohm
Nominal Power Handling <sup>1</sup>	150 W
Program Power <sup>2</sup>	400 W
Sensitivity <sup>3</sup>	93 dB
Frequency Range <sup>4</sup>	25-2500 Hz
Minimum Impedance	-
Gasket Material	Aluminum
Magnet Material	Ferrite
Cone Material	Treated Cellulose
Cone Shape	-
Surround	Rubber
Suspension	-
Voice Coil Diameter	2 in - 50 mm
Voice Coil Winding Material	-
Voice Coil Length	18,5 mm - 7,28 in
Voice Coil Former Material	Aluminum
Connection type	-
Ferrofluid	No
Magnetic Gap Height	8 mm - 0,31 in
Max. Peak to Peak Excursion Xvar	-
Efficiency Bandwidth Product EBP	73
Recommended Loading	Vented Box
Volume / Tuning frequency	136 Lt (dm <sup>3</sup> ) - 4,803 cuft / 34 Hz
Maximum recommended frequency	-

### T/S PARAMETERS

8 Ohm

Resonance frequency	Fs	27 Hz
DC Resistance	Re	5,7 Ohm
Mechanical Q Factor	Qms	3,04
Electrical Q Factor	Qes	0,37
Total Q Factor	Qts	0,33
BI Factor	BI	13,17 Tm
Effective Moving Mass	Mms	67 g
Equivalent Cas air loaded	Vas	205 lt (dm <sup>3</sup> ) - 7,24 cuft
Suspension Compliance	Cms	0,52 mm/N
Effective Piston Diameter	D	264 mm - 10,394 in
Effective piston area	Sd	547 cm <sup>2</sup> - 84,79 sq.in
Max. Linear Excursion <sup>5</sup>	Xmax	5,25 mm - 0,21 in
Voice Coil Inductance @ 1kHz	Le	0,9 mH
Half-space Efficiency	η0	1,05 %

### NOTES

<sup>1</sup> Nominal power is determined according to AES2-1984 (r2003) standard.

<sup>2</sup> Program Power is defined as 3 dB greater than the Nominal rating.

<sup>3</sup> 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.

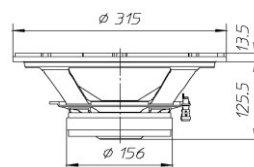
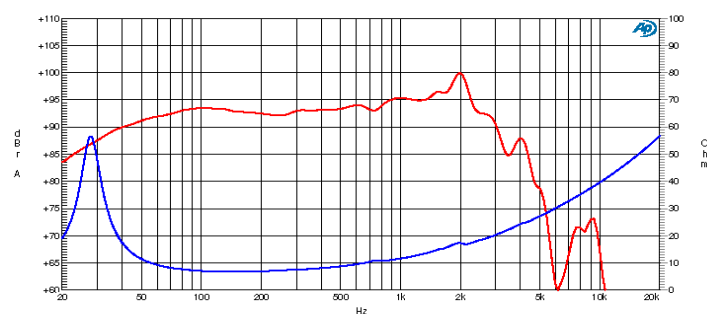
<sup>4</sup> Frequency range is given as the band of frequencies delineated by the lower and upper limits where the output level drops by 10 dB below the rated sensitivity in half space environment.

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

<sup>6</sup> Frequency response curve is measured on infinite baffle conditions.

<sup>7</sup> Impedance curve is measured in free air conditions at small signals.

### FREQUENCY RESPONSE AND IMPEDANCE CURVE <sup>6 7</sup>



### MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm - 12,4 in
Baffle Cutout Diameter	282 mm - 11,1 in
Flange and Gasket Thickness	13,5 mm - 0,53 in
Total Depth	139 mm - 5,472 in
Bolt Circle Diameter	295 mm - 11,61 in
Bolt Holes Quantity and Diameter	8 / 7 mm - 0,28 in
Net Weight	4,9 Kg - 10,8 lb
Shipping Units	1 Pc