



## 12" Ceramic Subwoofer

Program Power	7000 W
Rated impedance	2+2 Ohm
Nominal diameter	12" - 320 mm
Sensitivity (1W/1m)	91,5 dB
Voice coil diameter	3 in - 75 mm
Frequency Range	30-200 Hz

### SPECIFICATIONS

Nominal Diameter	12" - 320 mm	
Rated Impedance	2+2 Ohm	
Nominal Power Handling <sup>1</sup>	700+700 W	
Program Power <sup>2</sup>	7000 W	
Sensitivity <sup>3</sup>	91,5 dB	
Frequency Range <sup>4</sup>	30-200 Hz	
Minimum Impedance	-	
Gasket Material	Aluminum	
Magnet Material	Ferrite	
Cone Material	Reinforced cellulose fiber	
Cone Shape	Straight	
Surround	Polyurethane	
Suspension	Nomex Fabric	
Voice Coil Diameter	3 in - 75 mm	
Voice Coil Winding Material	Flat aluminium	
Voice Coil Length	52 mm - 2,05 in	
Voice Coil Former Material	Aluminum	
Connection type	Screw terminal	
Ferrofluid	No	
Magnetic Gap Height	15 mm - 0,59 in	
Max. Peak to Peak Excursion Xvar	-	
Efficiency Bandwidth Product EBP	138	
Recommended Loading	Vented Box	
Volume / Tuning frequency	30 Lt (dm <sup>3</sup> ) - 1,059 cuft / 44 Hz	
Maximum recommended frequency	-	
Alternative Available Version	1+1 Ohm	CSW7112EVO

### T/S PARAMETERS

2+2 Ohm

\* Parameters measured with voice coils connected in series

Resonance frequency	Fs	47 Hz
DC Resistance	Re	3,9 Ohm
Mechanical Q Factor	Qms	9,4
Electrical Q Factor	Qes	0,34
Total Q Factor	Qts	0,33
BI Factor	Bl	30,5 Tm
Effective Moving Mass	Mms	280 g
Equivalent Gas air loaded	Vas	15 lt (dm <sup>3</sup> ) - 0,53 cuft
Suspension Compliance	Cms	-
Effective Piston Diameter	D	255 mm - 10,04 in
Effective piston area	Sd	511 cm <sup>2</sup> - 79,21 sq in
Max. Linear Excursion <sup>5</sup>	Xmax	23 mm - 0,91 in
Voice Coil Inductance @ 1kHz	Le	3,2 mH
Half-space Efficiency	η0	0,45 %

### 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.

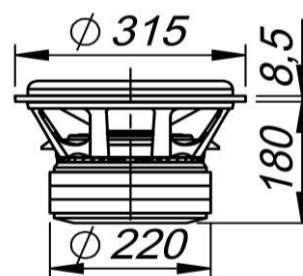
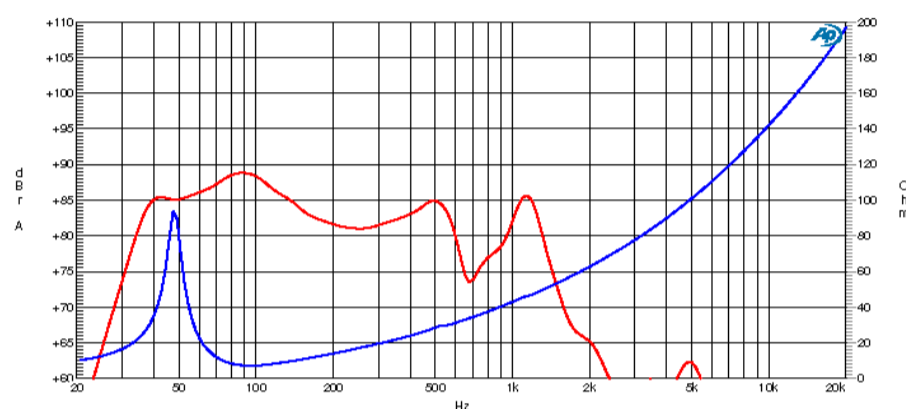
<sup>4</sup> Frequency range is given as the band of frequencies delineated by the lower and upper limits where the output level drops by 10 dB below the rated sensitivity in half space environment.

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

<sup>6</sup> Frequency response curve is measured in box.

<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	31 mm - 1,22 in
Total Depth	220,5 mm - 8,68 in
Bolt Circle Diameter	295 mm - 11,61 in
Bolt Holes Quantity and Diameter	8 / 7 mm - 0,28 in
Net Weight	19,2 Kg - 42,29 lb
Shipping Units	1 Pc