

850594

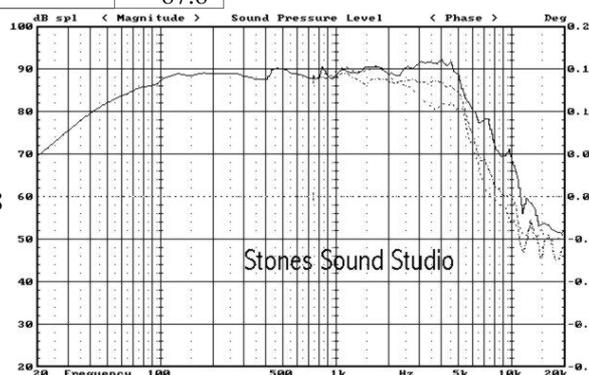
WOOFER/MID 6.5" MAGNETICALLY SHIELDED

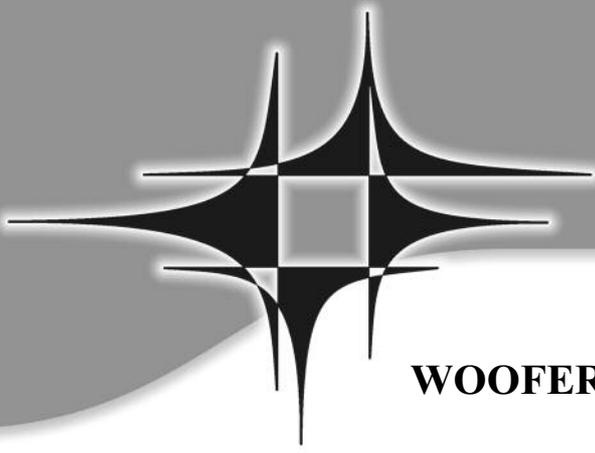
WOOFER/MID 6.5" MAGNETICALLY SHIELDED - 164 WR 33 90 SD AL LS TV 8ohm

A truly high end mid-woofer with a rigid aerodynamic cast aluminium basket, ventilated spider and shielded for use next to TVs and computer monitors. All aspects of this drivers design and manufacture achieves superior engineering with the lowest possible compression, maximum exertion of the cone, excellent ventilation, etc. Attractive modern style. Inverted dust cap. Suitable for higher power, high SPL, maintaining excellent dynamics and efficiency at any volume. The one piece cast aluminium basket provides the necessary sturdy base for the magnet structure and suspension and allows for a long excursion of the cone. The spider is ventilated to the basket, this achieves the lowest possible compression and to allow air to flow freely to create a cooling effect for the voice coil and therefor greatly extend the long term power tolerance. The design of the basket fascia allows for very slim width in box designs and the edges are cambered to reduce the necessary amount of counter sinking and edge distortion. Hex screw holes for secure anchoring. The five layer sandwich cone improves accuracy and consistency of sound reproduction over the entire frequency range, creating a more "musical" driver. Due to the soft suspension, an excellent dynamic small signal reproduction is obtained. Other features are high sensitivity, gold plated terminals and very low harmonic and difference tone distortion. This woofer is applicable on a wide range of applications, and is especially popular as multiple alignment floorstanding boxes, MTM centres, etc., Multiple driver boxes make this highly sensitive unit even more efficient. Upper crossover recommended 1500 to 4500Hz.

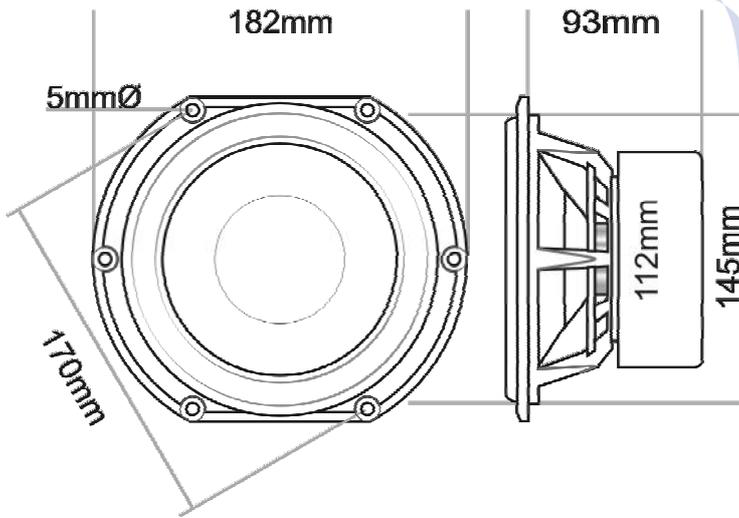
Parameters

			Free-Air	Common	Baffled
Nominal impedance	Zn	(ohm)		8	
Minimum impedance/at freq.	Zmin	(ohm/Hz)		7.0 / 282	
Maximum impedance	Zo	(ohm)		34.4	
DC resistance	Re	(ohm)		6.3	
Voice coil inductance	Le	(mH)		1.2	
Capacitor in series with 8 ohm (for impedance compensation)	Cc	(µF)		9	
Resonance Frequency	fs	(Hz)	50.0		48.4
Mechanical Q factor	Qms		2.30		2.37
Electrical Q factor	Qes		0.51		0.53
Total Q factor	Qts		0.42		0.43
F (Ratio fs/Qts)	F	(Hz)			112
Mechanical resistance	Rms	(Kg/s)		2.49	
Moving mass	Mms	(g)	18.2		19.4
Suspension compliance	Cms	(mm/N)		0.56	
Effective cone diameter	D	(cm)		13.5	
Effective piston area	Sd	(cm ²)		143	
Equivalent volume	VAS	(ltrs)		15.7	
Force factor	Bl	(N/A)		8.4	
Reference voltage sensitivity					
Re 2.83V 1m at 376 Hz (Measured)		(dB)			87.8
Voice coil diameter	d	(mm)	33		
Voice coil length	h	(mm)	17		
Voice coil layers	n		2		
Height of the gap	hg	(mm)	6		
Diameter of magnet	dm	(mm)	90+81		
Height of magnet	hm	(mm)	20+15		
Weight of magnet		(kg)	0.53+0.68		
Code					850594

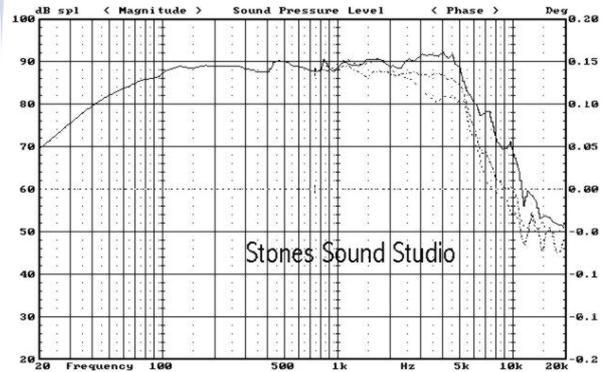




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Speaker Infinite Baffle Response Curve

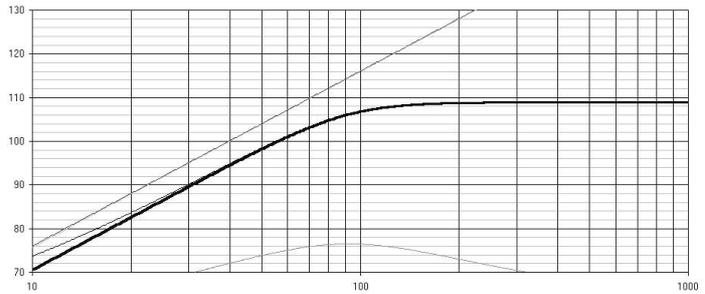


Projected Box Frequency Response Curves



Peerless 850467
Closed Box, Vb = 05 l

F3 = 089 Hz Fb = 089 Hz
Response peak = 000 dB
Qs = 005 Ql = 030



Peerless 850467
Vented Box, Vb = 25 l

F3 = 036 Hz Fb = 041 Hz
Response peak = 000 dB
Qs = 20 Ql = 50 Qp = 80

