



850488

HDS 134 - 5" MID-WOOFER SHIELDED CAST

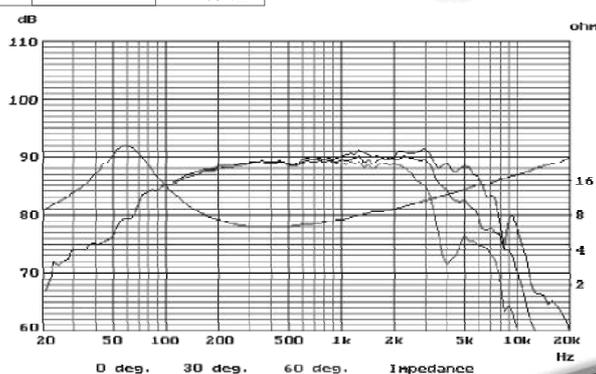
WOOFER/MID 5" - 134 WR 26 90 SD AL

A truly high end mid-woofer with a rigid aerodynamic cast aluminium basket and ventilated spider. 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 box designs and the edges are cambered to reduce the necessary amount of counter sinking. Hex screw holes. The three or 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 ideal for very compact 2-way bookshelf boxes (as small as 5L ported), for satellite systems as mains (Closed box 3L - 6L suggested) or as surround sound units. Also popular as multiple alignment floorstanding boxes, MTM centres, etc., Multiple driver boxes make this highly sensitive unit even more efficient. Peerless recommend that this highly dampened speaker is best suited to ported designs tuned to 65Hz in a 10L box. Upper crossover recommended 1500 to 4500Hz.

Parameters

Nominal impedance	Zn	(ohm)	
Minimum impedance/at freq.	Zmin	(ohm/Hz)	
Maximum impedance	Zo	(ohm)	
DC resistance	Re	(ohm)	
Voice coil inductance	Le	(mH)	
Capacitor in series with 8 ohm (for impedance compensation)	Cc	(µF)	
Resonance Frequency	fs	(Hz)	
Mechanical Q factor	Qms		
Electrical Q factor	Qes		
Total Q factor	Qts		
F (Ratio fs/Qts)	F	(Hz)	
Mechanical resistance	Rms	(Kg/s)	
Moving mass	Mms	(g)	
Suspension compliance	Cms	(mm/N)	
Effective cone diameter	D	(cm)	
Effective piston area	Sd	(cm²)	
Equivalent volume	VAS	(ltrs)	
Force factor	Bl	(N/A)	
Reference voltage sensitivity			
Re 2.83V 1m at 376 Hz (Measured)		(dB)	
Voice coil diameter	d	(mm)	
Voice coil length	h	(mm)	
Voice coil layers	n		
Flux density in gap	B	(T)	
Total useful flux		(mWb)	
Height of the gap	hg	(mm)	
Diameter of magnet	dm	(mm)	
Height of magnet	hm	(mm)	
Weight of magnet		(kg)	
Code	850488		

	Free-Air	Common	Baffled
		8	
		6.4/376	
		34.6	
		5.7	
		1.0	
		7	
	61.1		59.9
	2.07		2.11
	0.41		.42
	0.34		0.35
			172
		1.89	
	10.2		10.6
		0.67	
		10.8	
		91	
		7.6	
		7.4	
			89.2

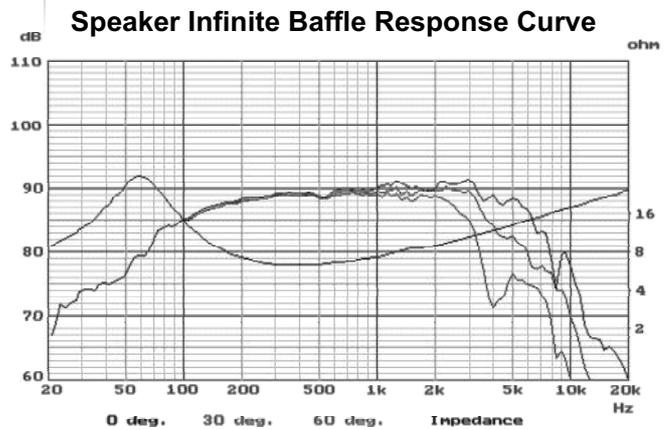
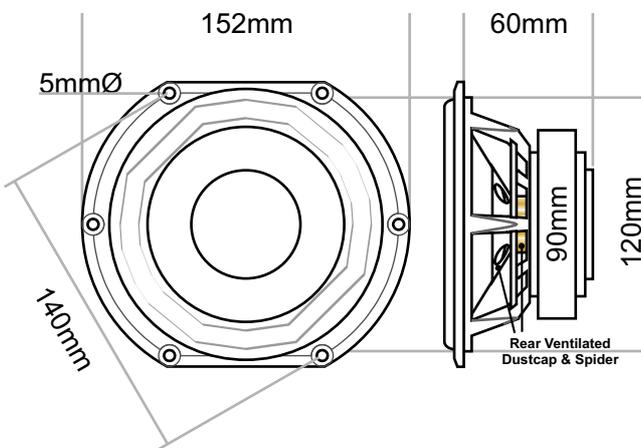




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Peerless Recommend: "F ratio (fs/Qts) for this driver is 172 and this indicates that the damping is high. The best way to use this driver is in a vented box with the following suggested box sizes.
 10 ltr box. 1 port. Diameter 40 mm. Lenght 55 mm. Tuning freq 65 Hz. Response, - 3 dB appr at 62 Hz.
 10 ltr box. 1 port. Diameter 55 mm. Lenght 120 mm. Tuning freq 65 Hz. Response, - 3 dB appr at 62 Hz.
 5 ltr box. 1 port. Diameter 30 mm. Lenght 45 mm. Tuning freq 78 Hz. Response, - 3 dB appr at 85 Hz.
 For small satellites it would be best to use the driver in a closed box. Box sizes from 3-6 ltr will be suitable.
 Cross-over freq between 1500-4500 Hz is recommendable for this model."



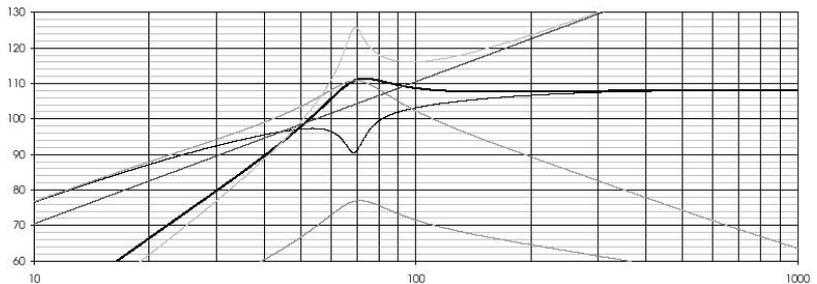
Projected Box Frequency Response Curves



— SPLtot at 110 W power input
 — SPL produced by driver
 — SPL produced by port
 — SPL produced by leaks
 — SPLtot at 14 mm peak driver excursion
 — SPL produced by driver at 14 mm peak excursion

Peerless 850488
Vented Box, Vb = 10 l

F3 = 059 Hz Fb = 069 Hz
 Response peak = 003 dB
 Qa = 20 Ql = 50 Qp = 80



— SPL produced by driver at 14 mm peak excursion
 — SPLtot at 110 W power input

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Closed Box, Vb = 05 l

