

HDS 182 Phase Plug



ORDER ID 850467

61/2" WOOFER



HDS 182 182 WR 33 102 SD AL PH LS 8 ohm - Order ID: 850467

A High End mid-woofer with rigid aerodynamic cast aluminium basket profile, and ventilated spider. The phaseplug eliminates compression under the dust cap and serves as heat sink for the coil to reduce power compression. The three or five layer sandwich cone improves accuracy and consistency of sound reproduction over the entire frequency range, creating a more "musical" driver. The doublebonded dustcap ensures that the dustcap will respond to every coil movement in a way never seen before. Another feature of the driver is its very low distortion magnet system with aluminium shortening ring and copper capped pole piece which both contribute as heatsinks for the voice coil, reducing power compression.

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Thiele Small 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	(μ F)
Resonance Frequency	fs	(Hz)
Mechanical Q factor	Qms	100 T.S. 11 TK
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	(cm ²)
Equivalent volume	VAS	(ltrs)
Force factor	BI	(N/A)
Reference voltage sensitivity Re 2.83V 1m at 259 Hz (Measured)		(dB)

Free air	Common	Baffled
	8	
	6.8/259	
	36.9	
	5.7	
	1.2	
	6	
46.8		45.4
2.81		2.89
0.51	1 1	0.53
0.43		0.45
		102
	2.03	
19.4		20.6
	0.60	
	13.1	
	134	
	14.8	
	8.0	
	100	87.3

Magnet and voice coil parameters:

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Voice coil diameter	d	(mm)
Voice coil length	h	(mm)
Voice coil layers	n	
Flux density in gap	В	(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)



