Peerless Data Sheet

HDS 205

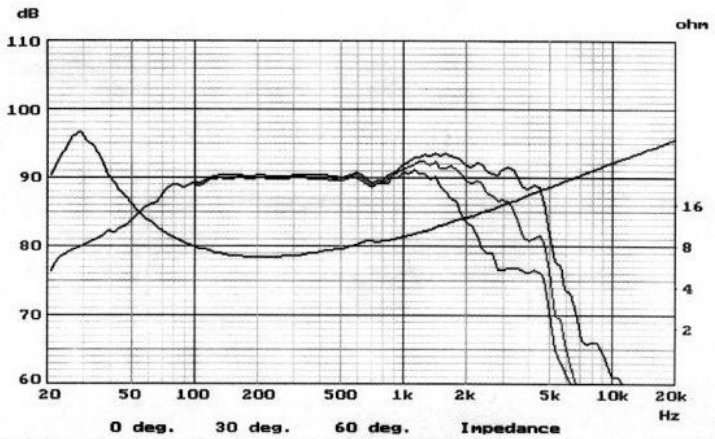
205 WR 33 102 SD 4L AL 8 ohm - Order ID: 850490

A High End woofer with rigid aerodynamic cast aluminium basket profile and ventilated spider. The basket provides the necessary sturdy base for the magnet structure and suspension and allows for long excursion of the cone. The spider is ventilated to achieve the lowest possible compression and to allow air to flow freely to create a cooling effect for the voice coil. The design of the basket front allows for very slim box designs and the edges are chamfered to re-duce the necessary amount of counter sinking.The three or five layer sandwich cone improves accuracy and consistency of sound reproduction over the entire frequency range, creating a more "musical" driver.
Other features are powerful bassresponse, high sensitivity, gold plated terminals and very low harmonic and difference tone distortion. This woofer is applicable on a wide range of applications, and has large flexibility in terms of chassis colour and cone material.

HDS 205

Thiele Small parameters:			Free air	Common	Baffled
Nominal impedance	Zn	(ohm)		8	
Minimum impedance/at freq.	Zmin	(ohm/Hz)		6.5/224	
Maximum impedance	Zo	(ohm)		62.2	
DC resistance	Re	(ohm)		5.7	
Voice coil inductance	Le	(mH)		1.8	
Capacitor in series with 8 ohm (for impedance compensation)	Cc	(µF)		12	
Resonance Frequency	fs	(Hz)	30.1		29.1
Mechanical Q factor	Qms		3.02		3.13
Electrical Q factor	Qes		0.30		0.31
Total Q factor	Qts		0.28		0.29
F (Ratio fs/Qts)	F	(Hz)			102
Mechanical resistance	Rms	(Kg/s)		1.74	
Moving mass	Mms	(g)	27.8		29.8
Suspension compliance	Cms	(mm/N)		1.01	
Effective cone diameter	D	(cm)		17.3	
Effective piston area	Sd	(cm^2)		235	
Equivalent volume	VAS	(ltrs)		76.7	
Force factor	Bl	(N/A)		9.9	
Reference voltage sensitivity Re 2.83V 1m at 224 Hz (Measured)		(dB)			91.2

Magnet and voice coil parameters:			
Voice coil diameter	d	(mm)	33
Voice coil length	h	(mm)	17
Voice coil layers	n		2
Flux density in gap	B	(T)	1.01
Total useful flux		(mWb)	0.99
Height of the gap	hg	(mm)	6
Diameter of magnet	dm	(mm)	102
Height of magnet	hm	(mm)	20
Weight of magnet		(kg)	0.68



Measuring methods and conditions are stated in Peerless Standard for Acoustic Measurements (PSAM)