



Peerless 8" WOOFER

850550 HDS 205

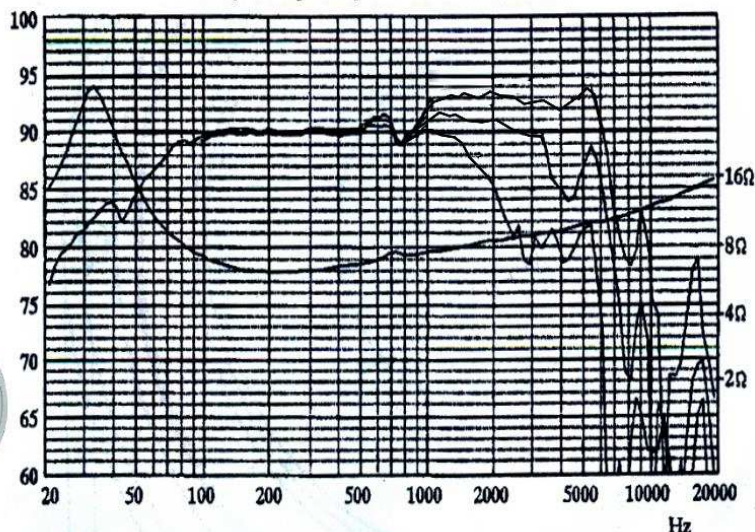
205 WR 33 102 SD AL CU 8Ω



High End woofer
Ventilated spider
Rigid aerodynamic cast aluminium basket
Very low distortion magnet system
Multiple layers sandwich cone



Frequency response : 2.83v / 1m



SPECIFICATION

Thiele Small parameters:

Nominal impedance	Zn (Ω)	8
Minimum impedance/at freq.	Zmin (Ω/Hz)	7/218
Maximum impedance	Zo (Ω)	45.4
Dc resistance	Re (Ω)	5.7
Voice coil inductance	Le (mH)	1.4
Capacitor in series with 8 Ω	Cc (μF)	7
(for impedance compensation)		

Resonance Frequency	fs (Hz)	34.6
Mechanical Q factor	Qms	3.04
Electrical Q factor	Qes	0.36
Total Q factor	Qts	0.32
F (Ratio fs/Qts)	F (Hz)	77

Mechanical resistance	Rms (Kg/s)	2.13
Moving mass	Mms (g)	27.37
Suspension compliance	Cms (mm/N)	0.77
Effective cone diameter	D (cm)	17
Effective piston area	Sd (cm²)	226
Equivalent volume	Vas (ltrs)	55.6
Force factor	Bl (N/A)	9.38

Reference voltage sensitivity	(dB)	91
Re 2.83V 1m at 218 Hz	(Calculated)	

Power handling

Longterm Max System Power (IEC)	(W)	150
---------------------------------	-----	-----

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)	1.18
Total useful flux	(mWb)	1.04
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

