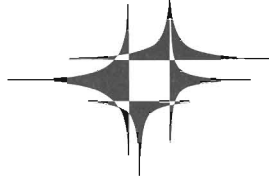


8" WOOFER



831858

220 WR 39 115 PPX AL DVC 8Ω+8Ω

nov. 1991

Thiele Small parameters:

		Free air	Common	Baffled
Nominal impedance	Z _{nom} (Ω):		4.0	
Minimum impedance/at freq.	Z _{min} (Ω/Hz):		3.2/159	
Maximum impedance	Z _o (Ω):		37.9	
Dc resistance	R _e (Ω):		4.0	
Voice coil inductance	L _e (mH):		1.4	
Capacitor in series with 4Ω (For impedance compensation)	C _c (μF):		69	
Resonance frequency	f _s (Hz):	23.4		22.9
Mechanical Q factor	Q _{ms} :	3.66		3.73
Electrical Q factor	Q _{es} :	0.43		0.44
Total Q factor	Q _{ts} :	0.39		0.39
F (Ratio f _s /Q _{ts})	F (Hz):			58
Mechanical resistance	R _{ms} (kg/s):		1.92	
Moving mass	M _{ms} (g):	47.6		49.6
Suspension compliance	C _{ms} (mm/N):		0.97	
Effective cone diameter	D (cm):		16.9	
Effective piston area	S _d (cm ²):		225.0	
Equivalent volume	V _{as} (ℓ):		69.6	
Force factor	BL (N/A):		8.1	
Reference Voltage Sensitivity Re 2.83V 1m at 159 Hz (Calculated)	(dB):			89.8

Magnet and voice coil parameters:

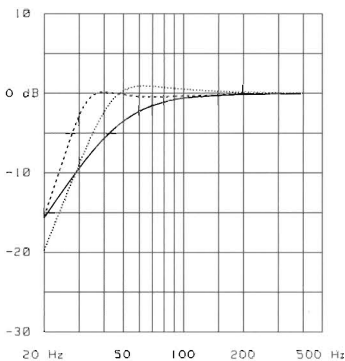
Voice coil diameter	d (mm):	39
Voice coil length	h (mm):	23.0
Voice coil layers	n :	2+2
Flux density in gap	B (T):	0.85
Total useful flux	Φ (mWb):	1.34
Height of the gap	h _g (mm):	8
Diameter of magnet	d _m (mm):	115
Height of magnet	h _m (mm):	22
Weight of magnet	(kg):	0.87

Power handling:

Longterm Max System Power (IEC)	(W):	200
Max linear SPL (rms)/by power	(dB/W):	108/300
Frequency range for test signal:		20-2000 Hz

Normal programme material signal with a crest factor of 6dB (IEC 268-5) is used in both tests

Boxsimulation.



V(B)	f(3)	f(B)	f(C)	Q _{ts}	L _p	F _b	D _p
L	Hz	Hz	Hz		cm	Hz	cm
15	52	32	48	0.64			C
20	39	30			20.0	36	5.0 B
40	29	25			12.0	31	5.0 B

Frequency response and impedance curve.

