

Peerless

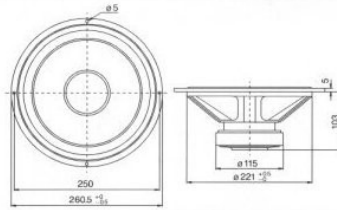


10" WOOFER



831727

260 SWR 39 115 PPX AL 4L 8Ω



A CC line 10" woofer for demanding high-end speaker systems. It has rubber surround, extra thick polypropylene cone and spacer on the pole piece. The short circuiting ring in the extra heavy magnet system minimizes distortion otherwise to be expected from a system with a 26 mm long four layer coil.

10" WOOFER



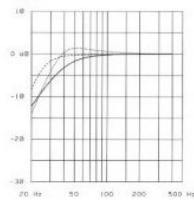
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260 SWR 39 115 PPX AL 4L 8Ω

rev. 1991

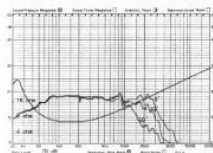
Thiele Small parameters:		Free air	Common	Buffed	Magnet and voice coil parameters:	
Nominal impedance	Z _{nom} (Ω):		8.0		Voice coil diameter	d (mm): 39
Minimum impedance/at freq.	Z _{min} (Ω/Hz):		6.2/123		Voice coil length	h (mm): 26.0
Maximum impedance	Z _o (Ω):		41.9		Voice coil layers	n : 4
Dc resistance	R _e (Ω):		5.4		Flux density in gap	B (T): 0.85
Voice coil inductance	L _e (mH):		3.3		Total useful flux	Φ (mWb): 1.34
Capacitor in series with 8Ω (For impedance compensation)	C _c (μF):		25		Height of the gap	hg (mm): 8
Resonance frequency	f _s (Hz):	22.3		21.5	Diameter of magnet	dm (mm): 115
Mechanical Q factor	Q _{ms} :	2.62		2.73	Height of magnet	hm (mm): 22
Electrical Q factor	Q _{es} :	0.38		0.40	Weight of magnet	(kg): 0.87
Total Q factor	Q _{ts} :	0.34		0.35		
F (Ratio f _s /Q _{ts})	F (Hz):			62		
Mechanical resistance	R _{ms} (kg/s):		2.71			
Moving mass	M _{ms} (g):	50.8		54.8		
Suspension compliance	C _{ms} (mm/N):		1.00		Power handling:	
Effective cone diameter	D (cm):		19.9		Longterm Max System Power (IEC)	(W): 220
Effective piston area	S _d (cm ²):		310.0		Max linear SPL (rms)/by power	(dB/W): 110/315
Equivalent volume	V _{as} (l):		136.2		Frequency range for test signal:	20-20000 Hz
Force factor	BL (N/A):		10.0			
Reference Voltage Sensitivity Re 2.83V 1m at 123 Hz (Calculated)	(dB):		87.8			

Boxsimulation.

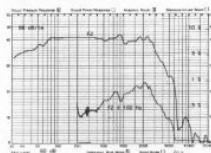


V (B)	F (3)	F (B)	F (C)	Q _{ts}	L _p	F _b	D _p
	L	H ₂	H ₂	H ₂	cm	Hz	cm
---	40	40	26	40	.63		C
---	50	31	25		10.0	30	5.0 B
---	90	26	25		10.0	23	5.0 B

Frequency response and impedance curve.



Differencetone distortion.



Harmonic distortion.

