



176 WR 33 102 SD 4Ω

850119

A high quality 6½" woofer with Peerless' "Sandwich" cone and a heavy magnet.

This 6½" woofer is a 4Ω version of the 850118 CSC woofer.

The lower Q favours application in smaller reflex boxes of 7-30 ltrs. as well as use in even smaller closed boxes down to 4 ltrs. It can also be used in even smaller boxes if the box is well-damped, but it should then be noticed that it can only be done on the cost of bass response.

CSC 176

These Small parameters:

		Free air	Common	Baffled
Nominal impedance	Zn (Ω)		4	
Minimum impedance/at freq.	Zmin (Ω/Hz)		3.9 / 218	
Maximum impedance	Zo (Ω)		22.7	
Dc resistance	Re (Ω)		3.5	
Voice coil inductance	Le (mH)		1.1	
Capacitor in series with 4 Ω (for impedance compensation)	Cc (μF)		40	
Resonance Frequency	fs (Hz)	38.0		36.8
Mechanical Q factor	Qms	2.29		2.37
Electrical Q factor	Qes	0.42		0.44
Total Q factor	Qts	0.36		0.37
F (Ratio fs/Qts)	F (Hz)			100
Mechanical resistance	Rms (Kg/s)		1.85	
Moving mass	Mms (g)	17.8		19.0
Suspension compliance	Cms (mm/N)		0.99	
Effective cone diameter	D (cm)		13.5	
Effective piston area	Sd (cm <sup>2</sup> )		143	
Equivalent volume	Vas (ltrs)		27.7	
Force factor	Bl (N/A)		6.0	
Reference voltage sensitivity	(dB)			90.0
Re 2.83V 1m at 218 Hz (Calculated)				

Magnet and voice coil parameters:

Voice coil diameter	d (mm)	33
Voice coil length	h (mm)	16
Voice coil layers	n	2
Flux density in gap	B (T)	1.08
Total useful flux	(mWb)	0.94
Height of the gap	hg (mm)	6
Diameter of magnet	dm (mm)	102
Height of magnet	hm (mm)	16
Weight of magnet	(kg)	0.54

Max linear SPL: