



257 WR 39 115 SDX 8Ω

850144

A 10" woofer with extra heavy magnet and Peerless' "Sandwich" cone. The SDX in the descriptive code indicates that it has a thick and well-damped 5 layer diaphragm construction.

The data makes it versatily suitable for closed boxes as well as reflex boxes with an extended bass response dependent of the box volume. With tunings of 23 Hz it keeps level down to 30 Hz in a box of 150 ltrs.

A remarkable characteristic is the very robust extra thick iron plate basket with a nice structure lackering.

CSC 257

Thiele Small parameters:

		Free air	Common	Baffled
Nominal impedance	Zn (Ω)		8	
Minimum impedance/at freq.	Zmin (Ω/Hz)		6.3 / 145	
Maximum impedance	Zo (Ω)		29.7	
Dc resistance	Re (Ω)		5.6	
Voice coil inductance	Le (mH)		1.9	
Capacitor in series with 8 Ω (for impedance compensation)	Cc (μF)		15	
Resonance Frequency	fs (Hz)	24.9		24.1
Mechanical Q factor	Qms	2.32		2.40
Electrical Q factor	Qes	0.54		0.56
Total Q factor	Qts	0.44		0.45
F (Ratio fs/Qts)	F (Hz)			53
Mechanical resistance	Rms (Kg/s)		3.01	
Moving mass	Mms (g)	44.6		47.8
Suspension compliance	Cms (mm/N)		0.91	
Effective cone diameter	D (cm)		20.5	
Effective piston area	Sd (cm ²)		330	
Equivalent volume	Vas (ltrs)		137.6	
Force factor	Bl (N/A)		8.5	
Reference voltage sensitivity	(dB)			88.0
Re 2.83V 1m at 145 Hz (Calculated)				

Magnet and voice coil parameters:

Voice coil diameter	d (mm)	39
Voice coil length	h (mm)	18
Voice coil layers	n	2
Flux density in gap	B (T)	1.08
Total useful flux	(mWb)	1.48
Height of the gap	hg (mm)	8
Diameter of magnet	dm (mm)	115
Height of magnet	hm (mm)	17.5
Weight of magnet	(kg)	0.69

Max linear SPL: