S164WR2608 (830657)

This driver is optimised for use into bass reflex systems in sizes from 15-30 Ltr. The 10 mm long coil provides good linearity and control at large excursions. A second order network is recommendable when used in two way systems. The driver from the SDS platform has a coated paper cone, and low loss rubber surround. It has a open style steel basket, with low compression design for full spicer ventilation, and cooling of the voice coil. The basket has an attractive curved shape, and are designed with a low profile chamfered front, that do not need countersinking. For OEM production there are optional cone designs available. More details available by the SDS platform description under section "engineering notes" on the DST homepage.

Thiele Small parameters:			**Free air**	**Common**	**Baffled**
Nominal impedance	Zn	(ohm)		8	
Minimum impedance/at freq.	Zmin	(ohm/Hz)		6.6/244	
Maximum impedance	Zo	(ohm)		35.9	
DC resistance	Re	(ohm)		6.2	
Voice coil inductance	Le	(mH)		1.4	
Capacitor in series with 8 ohm (for impedance compensation)	Cc	(µF)		11	
Resonance Frequency	fs	(Hz)	51.9		49.4
Mechanical Q factor	Qms		2.93		3.07
Electrical Q factor	Qes		0.60		0.63
Total Q factor	Qts		0.50		0.53
F (Ratio fs/Qts)	F	(Hz)			94
Mechanical resistance	Rms	(Kg/s)		1.28	
Moving mass	Mms	(g)	11.5		12.7
Suspension compliance	Cms	(mm/N)		0.82	
Effective cone diameter	D	(cm)		13.5	
Effective piston area	Sd	(cm^2)		143	
Equivalent volume	VAS	(ltrs)		23.1	
Force factor	Bl	(N/A)		6.2	
Reference voltage sensitivity Re 2.83V 1m at 244 Hz (Measured)		(dB)			88.8

Magnet and voice coil parameters:			
Voice coil diameter	d	(mm)	26
Voice coil length	h	(mm)	13
Voice coil layers	n		2
Flux density in gap	B	(T)	1.04
Total useful flux		(mWb)	0.69
Height of the gap	hg	(mm)	6
Diameter of magnet	dm	(mm)	81
Height of magnet	hm	(mm)	15
Weight of magnet		(kg)	0.32