

Thiele/Small Parameters

43CWR84

Re	7.68	Ohm	electrical voice coil resistance at DC
Krm	0.00535	Ohm	WRIGHT inductance model
Erm	0.895		WRIGHT inductance model
Kxm	0.03145	Ohm	WRIGHT inductance model
Exm	0.78		WRIGHT inductance model
Cmes	380.81	µF	electrical capacitance representing moving mass
Lces	33.4	mH	electrical inductance representing driver compliance
Res	130.11	Ohm	resistance due to mechanical losses
fs	44.6	Hz	driver resonance frequency
Mms	70.3335	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	67.4045	g	mechanical mass of voice coil and diaphragm without air load
Rms	1.4205	kg/s	mechanical resistance of total-driver losses
Cms	0.181	mm/N	mechanical compliance of driver suspension
Kms	5.535	N/mm	mechanical stiffness of driver suspension
Bl	13.594	Tm	force factor (Bl product)
Lambda	0.0275		suspension creep factor
Qtp	0.8525		total Q-factor considering all losses
Qms	13.8915		mechanical Q-factor of driver in free air considering Rms only
Qes	0.8195		electrical Q-factor of driver in free air considering Re only
Qts	0.774		total Q-factor considering Re and Rms only
Vas	9.1092	l	equivalent air volume of suspension
n0	0.095		reference efficiency (2 pi-radiation using Re)
Lm	81.98	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	82.155	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	3.585		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	2.27		root-mean-square fitting error of transfer function Hx (f)
Sd	188.69	cm ²	diaphragm area
Xmax	10.5	mm	