

Thiele/Small Parameters

45KMF124

Re	3.615	Ohm	electrical voice coil resistance at DC
Krm	0.00355	Ohm	WRIGHT inductance model
Erm	0.905		WRIGHT inductance model
Kxm	0.0286	Ohm	WRIGHT inductance model
Exm	0.74		WRIGHT inductance model
Cmes	647.395	µF	electrical capacitance representing moving mass
Lces	19.07	mH	electrical inductance representing driver compliance
Res	49.615	Ohm	resistance due to mechanical losses
fs	45.3	Hz	driver resonance frequency
Mms	137.9385	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	125.6495	g	mechanical mass of voice coil and diaphragm without air load
Rms	4.2965	kg/s	mechanical resistance of total-driver losses
Cms	0.0895	mm/N	mechanical compliance of driver suspension
Kms	11.175	N/mm	mechanical stiffness of driver suspension
Bl	14.5965	Tm	force factor (Bl product)
Lambda	0.002		suspension creep factor
Qtp	0.713		total Q-factor considering all losses
Qms	9.1425		mechanical Q-factor of driver in free air considering Rms only
Qes	0.6665		electrical Q-factor of driver in free air considering Re only
Qts	0.6215		total Q-factor considering Re and Rms only
Vas	30.51725	l	equivalent air volume of suspension
n0	0.409		reference efficiency (2 pi-radiation using Re)
Lm	88.32	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	88.755	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	4.895		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.94		root-mean-square fitting error of transfer function Hx (f)
Sd	490.87	cm ²	diaphragm area
Xmax	10.3	mm	