

Thiele/Small Parameters

45KMF102

Re	1.805	Ohm	electrical voice coil resistance at DC
Krm	0.00205	Ohm	WRIGHT inductance model
Erm	0.915		WRIGHT inductance model
Kxm	0.01505	Ohm	WRIGHT inductance model
Exm	0.77		WRIGHT inductance model
Cmes	1343.055	µF	electrical capacitance representing moving mass
Lces	10.15	mH	electrical inductance representing driver compliance
Res	24.61	Ohm	resistance due to mechanical losses
fs	43.15	Hz	driver resonance frequency
Mms	123.8905	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	116.8125	g	mechanical mass of voice coil and diaphragm without air load
Rms	3.7525	kg/s	mechanical resistance of total-driver losses
Cms	0.11	mm/N	mechanical compliance of driver suspension
Kms	9.105	N/mm	mechanical stiffness of driver suspension
Bl	9.6075	Tm	force factor (Bl product)
Lambda	-0.014		suspension creep factor
Qtp	0.7195		total Q-factor considering all losses
Qms	8.951		mechanical Q-factor of driver in free air considering Rms only
Qes	0.658		electrical Q-factor of driver in free air considering Re only
Qts	0.6125		total Q-factor considering Re and Rms only
Vas	17.9518	l	equivalent air volume of suspension
n0	0.2105		reference efficiency (2 pi-radiation using Re)
Lm	85.44	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	85.88	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	3.49		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	2.71		root-mean-square fitting error of transfer function Hx (f)
Sd	339.79	cm ²	diaphragm area
Xmax	10.3	mm	