

Thiele/Small Parameters

45KMF104

Re	3.71	Ohm	electrical voice coil resistance at DC
Krm	0.0039	Ohm	WRIGHT inductance model
Erm	0.89		WRIGHT inductance model
Kxm	0.02515	Ohm	WRIGHT inductance model
Exm	0.755		WRIGHT inductance model
Cmes	681.555	µF	electrical capacitance representing moving mass
Lces	18.245	mH	electrical inductance representing driver compliance
Res	50.635	Ohm	resistance due to mechanical losses
fs	45.15	Hz	driver resonance frequency
Mms	110.505	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	103.427	g	mechanical mass of voice coil and diaphragm without air load
Rms	3.211	kg/s	mechanical resistance of total-driver losses
Cms	0.1125	mm/N	mechanical compliance of driver suspension
Kms	8.895	N/mm	mechanical stiffness of driver suspension
Bl	12.736	Tm	force factor (Bl product)
Lambda	0.0175		suspension creep factor
Qtp	0.7665		total Q-factor considering all losses
Qms	9.775		mechanical Q-factor of driver in free air considering Rms only
Qes	0.717		electrical Q-factor of driver in free air considering Re only
Qts	0.668		total Q-factor considering Re and Rms only
Vas	18.37265	l	equivalent air volume of suspension
n0	0.227		reference efficiency (2 pi-radiation using Re)
Lm	85.755	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	86.085	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	3.59		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	2.105		root-mean-square fitting error of transfer function Hx (f)
Sd	339.79	cm ²	diaphragm area
Xmax	10.3	mm	