

Thiele/Small Parameters

46L7T82

Re	3.89	Ohm	electrical voice coil resistance at DC
Krm	0.0051	Ohm	WRIGHT inductance model
Erm	0.835		WRIGHT inductance model
Kxm	0.02025	Ohm	WRIGHT inductance model
Exm	0.77		WRIGHT inductance model
Cmes	703.095	µF	electrical capacitance representing moving mass
Lces	18.83	mH	electrical inductance representing driver compliance
Res	48.145	Ohm	resistance due to mechanical losses
fs	43.75	Hz	driver resonance frequency
Mms	119.792	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	114.808	g	mechanical mass of voice coil and diaphragm without air load
Rms	3.546	kg/s	mechanical resistance of total-driver losses
Cms	0.1105	mm/N	mechanical compliance of driver suspension
Kms	9.06	N/mm	mechanical stiffness of driver suspension
Bl	13.0535	Tm	force factor (Bl product)
Lambda	0.0625		suspension creep factor
Qtp	0.788		total Q-factor considering all losses
Qms	9.298		mechanical Q-factor of driver in free air considering Rms only
Qes	0.7525		electrical Q-factor of driver in free air considering Re only
Qts	0.696		total Q-factor considering Re and Rms only
Vas	11.31045	L	equivalent air volume of suspension
n0	0.1215		reference efficiency (2 pi-radiation using Re)
Lm	83.035	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	83.155	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	3.62		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	2.625		root-mean-square fitting error of transfer function Hx (f)
Sd	0	Ohm	resistance of series resistor
	268.96	cm ²	diaphragm area
Xmax	7.25	mm	