

Thiele/Small Parameters

44L7S154

Name		Unit	Comment
Re	6.892	Ohm	electrical voice coil resistance at DC
Le	7.6355	mH	frequency independent part of voice coil inductance
Krm	0.0353	Ohm	WRIGHT inductance model
Erm	0.79		WRIGHT inductance model
Kxm	0.14534	Ohm	WRIGHT inductance model
Exm	0.678		WRIGHT inductance model
Cmes	530.828	μ F	electrical capacitance representing moving mass
Lces	73.732	mH	electrical inductance representing driver compliance
Res	180.842	Ohm	resistance due to mechanical losses
fs	25.48	Hz	driver resonance frequency
Mms	410.5428	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	372.4636	g	mechanical mass of voice coil and diaphragm without air load
Rms	4.2818	kg/s	mechanical resistance of total-driver losses
Cms	0.0954	mm/N	mechanical compliance of driver suspension
Kms	10.53	N/mm	mechanical stiffness of driver suspension
Bl	27.8108	N/A	force factor (Bl product)
Lambda	0.011		suspension creep factor
Qtp	0.718		total Q-factor considering all losses
Qms	15.3538		mechanical Q-factor of driver in free air considering Rms only
Qes	0.5856		electrical Q-factor of driver in free air considering Re only
Qts	0.5642		total Q-factor considering Re and Rms only
Vas	146.95102	l	equivalent air volume of suspension
n0	0.3978	%	reference efficiency (2 pi-radiation using Re)
Lm	88.194	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Ln0m	88.842	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	2.69	%	root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.7975	%	root-mean-square fitting error of transfer function Hx (f)
Sd	1043.294	cm ²	diaphragm area
Xmax	19	mm	