

Thiele/Small Parameters: Kicker L7T102 10-Inch Shallow-Mount 2-Ohm Subwoofer

Re	3.505	Ohm	Electrical voice coil resistance at DC
Krm	0.00655	Ohm	WRIGHT inductance mode
Erm	0.915		WRIGHT inductance mode
Kxm	0.0552	Ohm	WRIGHT inductance mode
Exm	0.73		WRIGHT inductance model
Cmes	663.925	μF	Electrical capacitance representing moving mass
Lces	41.67	mH	Electrical inductance representing driver compliance
Res	57.68	Ohm	Resistance due to mechanical losses
fs	30.35	Hz	Driver resonance frequency
Mms	199.1735	g	Mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	189.0045	g	Mechanical mass of voice coil and diaphragm without air load
Rms	5.201	kg/s	Mechanical resistance of total-driver losses
Cms	0.1385	mm/N	Mechanical compliance of driver suspension
Kms	7.265	N/mm	Mechanical stiffness of driver suspension
Bl	17.3195	Tm	Force factor (Bl product)
Lambda	0.0415		Suspension creep factor
Qtp	0.5095		Total Q-factor considering all losses
Qms	7.304		Mechanical Q-factor of driver in free air considering Rms only
Qes	0.4455		Electrical Q-factor of driver in free air considering Re only
Qts	0.4195		Total Q-factor considering Re and Rms only
Vas	36.73175	l	Equivalent air volume of suspension
n0	0.221	%	Reference efficiency (2 pi-radiation using Re)
Lm	85.645	dB	Characteristic sound pressure level (SPL at 1m for 1W at Re)
Ln0m	86.21	dB	Nominal sensitivity (SPL at 1m for 1W at Zn)
rmse Z	2.295	%	Root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.940	%	Root-mean-square fitting error of transfer function Hx(f)
Sd	432.64	cm ²	Diaphragm area
Xmax	14.2	mm	Maximum linear excursion