

Thiele/Small Parameters: Kicker 52L7XS151 SoloXS Subwoofer

Re	2.07	Ohm	Electrical voice coil resistance at DC
Krm	0.02135	Ohm	WRIGHT inductance model
Erm	0.75		WRIGHT inductance model
Kxm	0.07685	Ohm	WRIGHT inductance model
Exm	0.635		WRIGHT inductance model
Cmes	1361.85	μF	Electrical capacitance representing moving mass
Lces	18.53	mH	Electrical inductance representing driver compliance
Res	15.72	Ohm	Resistance due to mechanical losses
fs	31.75	Hz	Driver resonance frequency
Mms	803.8665	g	Mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd (Sd)	780.2025	g	Mechanical mass of voice coil and diaphragm without air load
Rms	38.063	kg/s	Mechanical resistance of total-driver losses
Cms	0.031	mm/N	Mechanical compliance of driver suspension
Kms	32.34	N/mm	Mechanical stiffness of driver suspension
Bl	24.446	Tm	Force factor (Bl product)
Lambda s	0.0475		Suspension creep factor
Qtp	0.72		Total Q-factor considering all losses
Qms	4.263		Mechanical Q-factor of driver in free air considering Rms only
Qes	0.562		Electrical Q-factor of driver in free air considering Re only
Qts	0.4965		Total Q-factor considering Re and Rms only
Vas	40.5033	l	Equivalent air volume of suspension
n0	0.2205		Reference efficiency (2 pi-radiation using Re)
Lm	85.46	dB	Characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	85.305	dB	Nominal sensitivity (SPL at 1m for 1W @ Zn)
Sd	961	cm ²	Diaphragm area
Xmax	43	mm	Maximum linear excursion