

Thiele/Small Parameters: Kicker 52L7XS121 SoloXS Subwoofer

Re	2.08	Ohm	Electrical voice coil resistance at DC
Krm	0.02505	Ohm	WRIGHT inductance model
Erm	0.72		WRIGHT inductance model
Kxm	0.0694	Ohm	WRIGHT inductance model
Exm	0.65		WRIGHT inductance model
Cmes	1064.22	μF	Electrical capacitance representing moving mass
Lces	18.6	mH	Electrical inductance representing driver compliance
Res	18.25	Ohm	Resistance due to mechanical losses
fs	35.8	Hz	Driver resonance frequency
Mms	612.687	g	Mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd (Sd)	595.0305	g	Mechanical mass of voice coil and diaphragm without air load
Rms	31.574	kg/s	Mechanical resistance of total-driver losses
Cms	0.0325	mm/N	Mechanical compliance of driver suspension
Kms	31.055	N/mm	Mechanical stiffness of driver suspension
Bl	23.9945	Tm	Force factor (Bl product)
Lambda s	0.0735		Suspension creep factor
Qtp	0.6745		Total Q-factor considering all losses
Qms	4.371		Mechanical Q-factor of driver in free air considering Rms only
Qes	0.497		Electrical Q-factor of driver in free air considering Re only
Qts	0.4465		Total Q-factor considering Re and Rms only
Vas	17.89565	l	Equivalent air volume of suspension
n0	0.1585		Reference efficiency (2 pi-radiation using Re)
Lm	84.015	dB	Characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	83.85	dB	Nominal sensitivity (SPL at 1m for 1W @ Zn)
Sd	625	cm ²	Diaphragm area
Xmax	43	mm	Maximum linear excursion