

Thiele/Small Parameters: Kicker 52L7XS152 SoloXS Subwoofer

Re	3.625	Ohm	Electrical voice coil resistance at DC
Krm	0.0322	Ohm	WRIGHT inductance model
Erm	0.74		WRIGHT inductance model
Kxm	0.10975	Ohm	WRIGHT inductance model
Exm	0.64		WRIGHT inductance model
Cmes	940.645	μF	Electrical capacitance representing moving mass
Lces	25.775	mH	Electrical inductance representing driver compliance
Res	22.185	Ohm	Resistance due to mechanical losses
fs	32.4	Hz	Driver resonance frequency
Mms	792.8655	g	Mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd (Sd)	759.2015	g	Mechanical mass of voice coil and diaphragm without air load
Rms	38.04	kg/s	Mechanical resistance of total-driver losses
Cms	0.0305	mm/N	Mechanical compliance of driver suspension
Kms	32.905	N/mm	Mechanical stiffness of driver suspension
Bl	29.037	Tm	Force factor (Bl product)
Lambda s	0.0595		Suspension creep factor
Qtp	0.8205		Total Q-factor considering all losses
Qms	4.2425		Mechanical Q-factor of driver in free air considering Rms only
Qes	0.695		Electrical Q-factor of driver in free air considering Re only
Qts	0.597		Total Q-factor considering Re and Rms only
Vas	39.90155	l	Equivalent air volume of suspension
n0	0.187		Reference efficiency (2 pi-radiation using Re)
Lm	84.745	dB	Characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	85.17	dB	Nominal sensitivity (SPL at 1m for 1W @ Zn)
Sd	961	cm ²	Diaphragm area
Xmax	43	mm	Maximum linear excursion