

Thiele/Small Parameters

45L7R152

Re	4.06	Ohm	electrical voice coil resistance at DC
Krm	0.01385	Ohm	WRIGHT inductance model
Erm	0.885		WRIGHT inductance model
Kxm	0.10115	Ohm	WRIGHT inductance model
Exm	0.7		WRIGHT inductance model
Cmes	988.955	µF	electrical capacitance representing moving mass
Lces	39.86	mH	electrical inductance representing driver compliance
Res	53.67	Ohm	resistance due to mechanical losses
fs	25.35	Hz	driver resonance frequency
Mms	429.855	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	391.6805	g	mechanical mass of voice coil and diaphragm without air load
Rms	8.103	kg/s	mechanical resistance of total-driver losses
Cms	0.0915	mm/N	mechanical compliance of driver suspension
Kms	10.905	N/mm	mechanical stiffness of driver suspension
Bl	20.848	Tm	force factor (Bl product)
Lambda	0.0765		suspension creep factor
Qtp	0.7585		total Q-factor considering all losses
Qms	8.4535		mechanical Q-factor of driver in free air considering Rms only
Qes	0.64		electrical Q-factor of driver in free air considering Re only
Qts	0.5945		total Q-factor considering Re and Rms only
Vas	141.7355	l	equivalent air volume of suspension
n0	0.3475		reference efficiency (2 pi-radiation using Re)
Lm	87.605	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	87.54	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	2.305		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.58		root-mean-square fitting error of transfer function Hx (f)
Sd	1045.03	cm ²	diaphragm area
Xmax	16.4	mm	