

Thiele/Small Parameters

45KM122

Re	1.79	Ohm	electrical voice coil resistance at DC
Krm	0.00335	Ohm	WRIGHT inductance model
Erm	0.87		WRIGHT inductance model
Kxm	0.0188	Ohm	WRIGHT inductance model
Exm	0.75		WRIGHT inductance model
Cmes	1541.64	μF	electrical capacitance representing moving mass
Lces	17.485	mH	electrical inductance representing driver compliance
Res	53.735	Ohm	resistance due to mechanical losses
fs	30.7	Hz	driver resonance frequency
Mms	158.712	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	146.4225	g	mechanical mass of voice coil and diaphragm without air load
Rms	1.916	kg/s	mechanical resistance of total-driver losses
Cms	0.1695	mm/N	mechanical compliance of driver suspension
Kms	5.9	N/mm	mechanical stiffness of driver suspension
Bl	10.1465	Tm	force factor (Bl product)
Lambda	0.0265		suspension creep factor
Qtp	0.6045		total Q-factor considering all losses
Qms	15.9625		mechanical Q-factor of driver in free air considering Rms only
Qes	0.531		electrical Q-factor of driver in free air considering Re only
Qts	0.5135		total Q-factor considering Re and Rms only
Vas	57.92595	l	equivalent air volume of suspension
n0	0.3025	%	reference efficiency (2 pi-radiation using Re)
Lm	87.01	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Ln0m	87.495	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	2.115	%	root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.495	%	root-mean-square fitting error of transfer function Hx (f)
Sd	490.87	cm ²	diaphragm area
Xmax	10.3	mm	