

Thiele/Small Parameters

45KM124

Re	3.635	Ohm	electrical voice coil resistance at DC
Krm	0.00555	Ohm	WRIGHT inductance model
Erm	0.85		WRIGHT inductance model
Kxm	0.02545	Ohm	WRIGHT inductance model
Exm	0.76		WRIGHT inductance model
Cmes	731.02	μF	electrical capacitance representing moving mass
Lces	31.395	mH	electrical inductance representing driver compliance
Res	101.74	Ohm	resistance due to mechanical losses
fs	33.2	Hz	driver resonance frequency
Mms voice coil	144.3965	g	mechanical mass of driver diaphragm assembly including air load and
Mmd	132.1075	g	mechanical mass of voice coil and diaphragm without air load
Rms	1.9425	kg/s	mechanical resistance of total-driver losses
Cms	0.159	mm/N	mechanical compliance of driver suspension
Kms	6.295	N/mm	mechanical stiffness of driver suspension
Bl	14.055	Tm	force factor (Bl product)
Lambda	0.0035		suspension creep factor
Qtp	0.6105		total Q-factor considering all losses
Qms	15.525		mechanical Q-factor of driver in free air considering Rms only
Qes	0.5545		electrical Q-factor of driver in free air considering Re only
Qts	0.5355		total Q-factor considering Re and Rms only
Vas	54.1969	l	equivalent air volume of suspension
n0	0.3445	%	reference efficiency (2 pi-radiation using Re)
Lm	87.575	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Ln0m	87.99	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	1.83	%	root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.98	%	root-mean-square fitting error of transfer function Hx (f)
Sd	490.87	cm ²	diaphragm area
Xmax	10.3	mm	