

Thiele/Small Parameters

44CWCD124

Re	7.425	Ohm	electrical voice coil resistance at DC
Krm	0.0049	Ohm	WRIGHT inductance model
Erm	0.945		WRIGHT inductance model
Kxm	0.04725	Ohm	WRIGHT inductance model
Exm	0.745		WRIGHT inductance model
Cmes	563.06	μF	electrical capacitance representing moving mass
Lces	41.755	mH	electrical inductance representing driver compliance
Res	148.56	Ohm	resistance due to mechanical losses
fs	32.85	Hz	driver resonance frequency
Mms	132.2595	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	118.4355	g	mechanical mass of voice coil and diaphragm without air load
Rms	1.5835	kg/s	mechanical resistance of total-driver losses
Cms	0.178	mm/N	mechanical compliance of driver suspension
Kms	5.635	N/mm	mechanical stiffness of driver suspension
Bl	15.325	Tm	force factor (Bl product)
Lambda	-0.0165		suspension creep factor
Qtp	0.8995		total Q-factor considering all losses
Qms	17.2655		mechanical Q-factor of driver in free air considering Rms only
Qes	0.8625		electrical Q-factor of driver in free air considering Re only
Qts	0.8215		total Q-factor considering Re and Rms only
Vas	71.00065	l	equivalent air volume of suspension
n0	0.28		reference efficiency (2 pi-radiation using Re)
Lm	86.665	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	86.99	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	2.205		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	2.295		root-mean-square fitting error of transfer function Hx (f)
Sd	530.93	cm ²	diaphragm area
Xmax	10.3	mm	