

Thiele/Small Parameters

45L7R104

Re	6.765	Ohm	electrical voice coil resistance at DC
Krm	0.00945	Ohm	WRIGHT inductance model
Erm	0.925		WRIGHT inductance model
Kxm	0.08275	Ohm	WRIGHT inductance model
Exm	0.73		WRIGHT inductance model
Cmes	329.79	μF	electrical capacitance representing moving mass
Lces	74.605	mH	electrical inductance representing driver compliance
Res	105.98	Ohm	resistance due to mechanical losses
fs	32.05	Hz	driver resonance frequency
Mms	176.048	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	165.879	g	mechanical mass of voice coil and diaphragm without air load
Rms	5.0365	kg/s	mechanical resistance of total-driver losses
Cms	0.1395	mm/N	mechanical compliance of driver suspension
Kms	7.155	N/mm	mechanical stiffness of driver suspension
Bl	23.104	Tm	force factor (Bl product)
Lambda	0.052		suspension creep factor
Qtp	0.4975		total Q-factor considering all losses
Qms	7.0465		mechanical Q-factor of driver in free air considering Rms only
Qes	0.45		electrical Q-factor of driver in free air considering Re only
Qts	0.423		total Q-factor considering Re and Rms only
Vas	37.0217	l	equivalent air volume of suspension
n0	0.2615		reference efficiency (2 pi-radiation using Re)
Lm	86.375	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	87.105	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	2.285		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.6		root-mean-square fitting error of transfer function Hx (f)
Sd	432.64	cm ²	diaphragm area
Xmax	13.9	mm	