

# Thiele/Small Parameters

## 46L7T104

Re	7.575	Ohm	electrical voice coil resistance at DC
Krm	0.0089	Ohm	WRIGHT inductance model
Erm	0.885		WRIGHT inductance model
Kxm	0.0597	Ohm	WRIGHT inductance model
Exm	0.73		WRIGHT inductance model
Cmes	419.11	µF	electrical capacitance representing moving mass
Lces	68.425	mH	electrical inductance representing driver compliance
Res	126.685	Ohm	resistance due to mechanical losses
fs	29.7	Hz	driver resonance frequency
Mms	191.972	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	181.0525	g	mechanical mass of voice coil and diaphragm without air load
Rms	3.6155	kg/s	mechanical resistance of total-driver losses
Cms	0.1495	mm/N	mechanical compliance of driver suspension
Kms	6.695	N/mm	mechanical stiffness of driver suspension
Bl	21.4025	Tm	force factor (Bl product)
Lambda	0.019		suspension creep factor
Qtp	0.621		total Q-factor considering all losses
Qms	9.9155		mechanical Q-factor of driver in free air considering Rms only
Qes	0.593		electrical Q-factor of driver in free air considering Re only
Qts	0.5595		total Q-factor considering Re and Rms only
Vas	43.51055	L	equivalent air volume of suspension
n0	0.185		reference efficiency (2 pi-radiation using Re)
Lm	84.88	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	85.115	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	3.075		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	2.14		root-mean-square fitting error of transfer function Hx (f)
Sd	0	Ohm	resistance of series resistor
	453.69	cm <sup>2</sup>	diaphragm area
Xmax	9.2	mm	