

# Thiele/Small Parameters

## 41L7124

Re	6.075	Ohm	electrical voice coil resistance at DC
Krm	0.0719	Ohm	WRIGHT inductance model
Erm	0.67		WRIGHT inductance model
Kxm	0.1319	Ohm	WRIGHT inductance model
Exm	0.66		WRIGHT inductance model
Cmes	647.825	µF	electrical capacitance representing moving mass
Lces	36.215	mH	electrical inductance representing driver compliance
Res	91.745	Ohm	resistance due to mechanical losses
fs	32.85	Hz	driver resonance frequency
Mms	322.3385	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	304.2555	g	mechanical mass of voice coil and diaphragm without air load
Rms	5.424	kg/s	mechanical resistance of total-driver losses
Cms	0.073	mm/N	mechanical compliance of driver suspension
Kms	13.75	N/mm	mechanical stiffness of driver suspension
Bl	22.308	Tm	force factor (Bl product)
Lambda	0.0895		suspension creep factor
Qtp	1.0585		total Q-factor considering all losses
Qms	12.2705		mechanical Q-factor of driver in free air considering Rms only
Qes	0.812		electrical Q-factor of driver in free air considering Re only
Qts	0.7615		total Q-factor considering Re and Rms only
Vas	41.58395	l	equivalent air volume of suspension
n0	0.1745		reference efficiency (2 pi-radiation using Re)
Lm	84.615	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	85.815	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	2.35		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	2.435		root-mean-square fitting error of transfer function Hx (f)
Sd	635.03	cm <sup>2</sup>	diaphragm area
Xmax	21	mm	