

# Thiele/Small Parameters

## 43CVT104

Re	3.78	Ohm	electrical voice coil resistance at DC
Krm	0.0056	Ohm	WRIGHT inductance model
Erm	0.87		WRIGHT inductance model
Kxm	0.0345	Ohm	WRIGHT inductance model
Exm	0.735		WRIGHT inductance model
Cmes	790.045	µF	electrical capacitance representing moving mass
Lces	19.09	mH	electrical inductance representing driver compliance
Res	47.2	Ohm	resistance due to mechanical losses
fs	41	Hz	driver resonance frequency
Mms	115.4975	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	107.5705	g	mechanical mass of voice coil and diaphragm without air load
Rms	3.1015	kg/s	mechanical resistance of total-driver losses
Cms	0.1305	mm/N	mechanical compliance of driver suspension
Kms	7.665	N/mm	mechanical stiffness of driver suspension
Bl	12.099	Tm	force factor (Bl product)
Lambda	0.0615		suspension creep factor
Qtp	0.8295		total Q-factor considering all losses
Qms	9.5965		mechanical Q-factor of driver in free air considering Rms only
Qes	0.7685		electrical Q-factor of driver in free air considering Re only
Qts	0.7115		total Q-factor considering Re and Rms only
Vas	24.79075	l	equivalent air volume of suspension
n0	0.214		reference efficiency (2 pi-radiation using Re)
Lm	85.505	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	85.75	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	3.69		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.87		root-mean-square fitting error of transfer function Hx (f)
Sd	366.44	cm <sup>2</sup>	diaphragm area
Xmax	10.5	mm	