

# Thiele/Small Parameters

## 43CVT122

Re	2.215	Ohm	electrical voice coil resistance at DC
Krm	0.00175	Ohm	WRIGHT inductance model
Erm	0.97		WRIGHT inductance model
Kxm	0.0239	Ohm	WRIGHT inductance model
Exm	0.735		WRIGHT inductance model
Cmes	1379.365	μF	electrical capacitance representing moving mass
Lces	13.885	mH	electrical inductance representing driver compliance
Res	30.28	Ohm	resistance due to mechanical losses
fs	36.45	Hz	driver resonance frequency
Mms	168.6665	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	154.8425	g	mechanical mass of voice coil and diaphragm without air load
Rms	4.0525	kg/s	mechanical resistance of total-driver losses
Cms	0.1135	mm/N	mechanical compliance of driver suspension
Kms	8.86	N/mm	mechanical stiffness of driver suspension
Bl	11.059	Tm	force factor (Bl product)
Lambda	0.0295		suspension creep factor
Qtp	0.74		total Q-factor considering all losses
Qms	9.5455		mechanical Q-factor of driver in free air considering Rms only
Qes	0.6985		electrical Q-factor of driver in free air considering Re only
Qts	0.651		total Q-factor considering Re and Rms only
Vas	45.338	l	equivalent air volume of suspension
n0	0.3005		reference efficiency (2 pi-radiation using Re)
Lm	86.98	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	86.535	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	5.165		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	2.565		root-mean-square fitting error of transfer function Hx (f)
Sd	530.93	cm <sup>2</sup>	diaphragm area
Xmax	10.5	mm	