

# Thiele/Small Parameters

## 44CVX122

Re	3.49	Ohm	electrical voice coil resistance at DC
Krm	0.0117	Ohm	WRIGHT inductance model
Erm	0.86		WRIGHT inductance model
Kxm	0.0700	Ohm	WRIGHT inductance model
Exm	0.71		WRIGHT inductance model
Cmes	574.28	µF	electrical capacitance representing moving mass
Lces	42.49	mH	electrical inductance representing driver compliance
Res	96.34	Ohm	resistance due to mechanical losses
fs	32.2	Hz	driver resonance frequency
Mms	242.310	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	228.803	g	mechanical mass of voice coil and diaphragm without air load
Rms	4.380	kg/s	mechanical resistance of total-driver losses
Cms	0.101	mm/N	mechanical compliance of driver suspension
Kms	9.93	N/mm	mechanical stiffness of driver suspension
Bl	20.541	Tm	force factor (Bl product)
Lambda	0.071		suspension creep factor
Qtp	0.512		total Q-factor considering all losses
Qms	11.200		mechanical Q-factor of driver in free air considering Rms only
Qes	0.406		electrical Q-factor of driver in free air considering Re only
Qts	0.391		total Q-factor considering Re and Rms only
Vas	38.9551	l	equivalent air volume of suspension
n0	0.309		reference efficiency (2 pi-radiation using Re)
Lm	87.10	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Ln0m	87.69	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	3.24		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	2.18		root-mean-square fitting error of transfer function Hx (f)
Sd	522.79	cm <sup>2</sup>	diaphragm area
Xmax	16.25	mm	