

# Thiele/Small Parameters

## 43CVR104

Re	7.15	Ohm	electrical voice coil resistance at DC
Krm	0.01235	Ohm	WRIGHT inductance model
Erm	0.85		WRIGHT inductance model
Kxm	0.07055	Ohm	WRIGHT inductance model
Exm	0.725		WRIGHT inductance model
Cmes	474.67	µF	electrical capacitance representing moving mass
Lces	23.94	mH	electrical inductance representing driver compliance
Res	68.32	Ohm	resistance due to mechanical losses
fs	47.4	Hz	driver resonance frequency
Mms	127.9	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	120.299	g	mechanical mass of voice coil and diaphragm without air load
Rms	3.9605	kg/s	mechanical resistance of total-driver losses
Cms	0.089	mm/N	mechanical compliance of driver suspension
Kms	11.4	N/mm	mechanical stiffness of driver suspension
Bl	16.4145	Tm	force factor (Bl product)
Lambda	0.068		suspension creep factor
Qtp	1.0945		total Q-factor considering all losses
Qms	9.6305		mechanical Q-factor of driver in free air considering Rms only
Qes	1.0115		electrical Q-factor of driver in free air considering Re only
Qts	0.915		total Q-factor considering Re and Rms only
Vas	15.97505	l	equivalent air volume of suspension
n0	0.1605		reference efficiency (2 pi-radiation using Re)
Lm	84.255	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	84.74	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	2.96		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	2.15		root-mean-square fitting error of transfer function Hx (f)
Sd	356.33	cm <sup>2</sup>	diaphragm area
Xmax	14	mm	