

# Thiele/Small Parameters

## 43CWR104

Re	7.09	Ohm	electrical voice coil resistance at DC
Krm	0.00415	Ohm	WRIGHT inductance model
Erm	0.98		WRIGHT inductance model
Kxm	0.04735	Ohm	WRIGHT inductance model
Exm	0.775		WRIGHT inductance model
Cmes	377.665	μF	electrical capacitance representing moving mass
Lces	60.16	mH	electrical inductance representing driver compliance
Res	143.235	Ohm	resistance due to mechanical losses
fs	33.35	Hz	driver resonance frequency
Mms	128.036	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	120.752	g	mechanical mass of voice coil and diaphragm without air load
Rms	2.377	kg/s	mechanical resistance of total-driver losses
Cms	0.1775	mm/N	mechanical compliance of driver suspension
Kms	5.635	N/mm	mechanical stiffness of driver suspension
Bl	18.412	Tm	force factor (Bl product)
Lambda	-0.039		suspension creep factor
Qtp	0.589		total Q-factor considering all losses
Qms	11.3535		mechanical Q-factor of driver in free air considering Rms only
Qes	0.5615		electrical Q-factor of driver in free air considering Re only
Qts	0.535		total Q-factor considering Re and Rms only
Vas	30.1305	l	equivalent air volume of suspension
n0	0.192		reference efficiency (2 pi-radiation using Re)
Lm	85.03	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	85.555	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	4.02		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.925		root-mean-square fitting error of transfer function Hx (f)
Sd	346.36	cm <sup>2</sup>	diaphragm area
Xmax	14	mm	