

# Thiele/Small Parameters

## 43CWRT82

Re	3.895	Ohm	electrical voice coil resistance at DC
Krm	0.0028	Ohm	WRIGHT inductance model
Erm	0.89		WRIGHT inductance model
Kxm	0.017725	Ohm	WRIGHT inductance model
Exm	0.77		WRIGHT inductance model
Cmes	604.765	µF	electrical capacitance representing moving mass
Lces	23.3175	mH	electrical inductance representing driver compliance
Res	79.4075	Ohm	resistance due to mechanical losses
fs	42.425	Hz	driver resonance frequency
Mms	80.015	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	76.7325	g	mechanical mass of voice coil and diaphragm without air load
Rms	1.669	kg/s	mechanical resistance of total-driver losses
Cms	0.17625	mm/N	mechanical compliance of driver suspension
Kms	5.68	N/mm	mechanical stiffness of driver suspension
Bl	11.50375	Tm	force factor (Bl product)
Lambda	0.01275		suspension creep factor
Qtp	0.6575		total Q-factor considering all losses
Qms	12.8025		mechanical Q-factor of driver in free air considering Rms only
Qes	0.628		electrical Q-factor of driver in free air considering Re only
Qts	0.59875		total Q-factor considering Re and Rms only
Vas	10.332875	l	equivalent air volume of suspension
n0	0.12075		reference efficiency (2 pi-radiation using Re)
Lm	83.015	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	83.13	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	4.3725		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.7125		root-mean-square fitting error of transfer function Hx (f)
Sd	203.58	cm <sup>2</sup>	diaphragm area
Xmax	8.0	mm	