

# Thiele/Small Parameters

## 43CWRT122

Re	3.89	Ohm	electrical voice coil resistance at DC
Krm	0.00675	Ohm	WRIGHT inductance model
Erm	0.855		WRIGHT inductance model
Kxm	0.0361	Ohm	WRIGHT inductance model
Exm	0.735		WRIGHT inductance model
Cmes	863.125	µF	electrical capacitance representing moving mass
Lces	35.05	mH	electrical inductance representing driver compliance
Res	86.465	Ohm	resistance due to mechanical losses
fs	28.9	Hz	driver resonance frequency
Mms	190.806	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	177.917	g	mechanical mass of voice coil and diaphragm without air load
Rms	2.559	kg/s	mechanical resistance of total-driver losses
Cms	0.1585	mm/N	mechanical compliance of driver suspension
Kms	6.31	N/mm	mechanical stiffness of driver suspension
Bl	14.868	Tm	force factor (Bl product)
Lambda	0.0425		suspension creep factor
Qtp	0.666		total Q-factor considering all losses
Qms	13.565		mechanical Q-factor of driver in free air considering Rms only
Qes	0.61		electrical Q-factor of driver in free air considering Re only
Qts	0.5835		total Q-factor considering Re and Rms only
Vas	57.6099	l	equivalent air volume of suspension
n0	0.22		reference efficiency (2 pi-radiation using Re)
Lm	85.625	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Ln0m	85.745	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	2.955		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.695		root-mean-square fitting error of transfer function Hx (f)
Sd	506.71	cm <sup>2</sup>	diaphragm area
Xmax	10.5	mm	