

# Thiele/Small Parameters

## 43CVR154

Re	7.14	Ohm	electrical voice coil resistance at DC
Krm	0.01575	Ohm	WRIGHT inductance model
Erm	0.86		WRIGHT inductance model
Kxm	0.0757	Ohm	WRIGHT inductance model
Exm	0.745		WRIGHT inductance model
Cmes	384.345	μF	electrical capacitance representing moving mass
Lces	96.66	mH	electrical inductance representing driver compliance
Res	163.305	Ohm	resistance due to mechanical losses
fs	26.15	Hz	driver resonance frequency
Mms	291.099	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	263.5975	g	mechanical mass of voice coil and diaphragm without air load
Rms	4.648	kg/s	mechanical resistance of total-driver losses
Cms	0.1275	mm/N	mechanical compliance of driver suspension
Kms	7.845	N/mm	mechanical stiffness of driver suspension
Bl	27.5305	Tm	force factor (Bl product)
Lambda	0		suspension creep factor
Qtp	0.504		total Q-factor considering all losses
Qms	10.285		mechanical Q-factor of driver in free air considering Rms only
Qes	0.45		electrical Q-factor of driver in free air considering Re only
Qts	0.4315		total Q-factor considering Re and Rms only
Vas	127.2657	l	equivalent air volume of suspension
n0	0.4855		reference efficiency (2 pi-radiation using Re)
Lm	89.05	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Ln0m	89.545	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	2.88		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.945		root-mean-square fitting error of transfer function Hx (f)
Sd	839.82	cm <sup>2</sup>	diaphragm area
Xmax	15	mm	