

Thiele/Small Parameters

44CWCS154

Re	3.345	Ohm	electrical voice coil resistance at DC
Krm	0.00155	Ohm	WRIGHT inductance model
Erm	1.065		WRIGHT inductance model
Kxm	0.02925	Ohm	WRIGHT inductance model
Exm	0.785		WRIGHT inductance model
Cmes	1016.24	μF	electrical capacitance representing moving mass
Lces	38.19	mH	electrical inductance representing driver compliance
Res	116.05	Ohm	resistance due to mechanical losses
fs	25.55	Hz	driver resonance frequency
Mms	240.0515	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	213.0515	g	mechanical mass of voice coil and diaphragm without air load
Rms	2.039	kg/s	mechanical resistance of total-driver losses
Cms	0.162	mm/N	mechanical compliance of driver suspension
Kms	6.2	N/mm	mechanical stiffness of driver suspension
Bl	15.363	Tm	force factor (Bl product)
Lambda	-0.009		suspension creep factor
Qtp	0.582		total Q-factor considering all losses
Qms	18.919		mechanical Q-factor of driver in free air considering Rms only
Qes	0.5455		electrical Q-factor of driver in free air considering Re only
Qts	0.5305		total Q-factor considering Re and Rms only
Vas	157.77005	l	equivalent air volume of suspension
n0	0.466		reference efficiency (2 pi-radiation using Re)
Lm	88.865	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	89.645	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	4.015		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	1.2		root-mean-square fitting error of transfer function Hx (f)
Sd	829.58	cm²	diaphragm area
Xmax	13.5	mm	