

# Thiele/Small Parameters

## 41L7152

Re	3.575	Ohm	electrical voice coil resistance at DC
Krm	0.05035	Ohm	WRIGHT inductance model
Erm	0.655		WRIGHT inductance model
Kxm	0.08335	Ohm	WRIGHT inductance model
Exm	0.665		WRIGHT inductance model
Cmes	1087.265	µF	electrical capacitance representing moving mass
Lces	22.83	mH	electrical inductance representing driver compliance
Res	58.25	Ohm	resistance due to mechanical losses
fs	31.95	Hz	driver resonance frequency
Mms	507.0675	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	469.6915	g	mechanical mass of voice coil and diaphragm without air load
Rms	8.0135	kg/s	mechanical resistance of total-driver losses
Cms	0.049	mm/N	mechanical compliance of driver suspension
Kms	20.45	N/mm	mechanical stiffness of driver suspension
Bl	21.5955	Tm	force factor (Bl product)
Lambda	0.048		suspension creep factor
Qtp	1.048		total Q-factor considering all losses
Qms	12.7095		mechanical Q-factor of driver in free air considering Rms only
Qes	0.7815		electrical Q-factor of driver in free air considering Re only
Qts	0.736		total Q-factor considering Re and Rms only
Vas	73.53105	l	equivalent air volume of suspension
n0	0.296		reference efficiency (2 pi-radiation using Re)
Lm	86.905	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	87.4	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	3.08		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	3.44		root-mean-square fitting error of transfer function Hx (f)
Sd	1030.41	cm²	diaphragm area
Xmax	21.5	mm	