

## Thiele/Small Parameters

## 44CWCD104

Re	7.465	Ohm	electrical voice coil resistance at DC
Krm	0.00515	Ohm	WRIGHT inductance model
Erm	0.91		WRIGHT inductance model
Kxm	0.03185	Ohm	WRIGHT inductance model
Exm	0.785		WRIGHT inductance model
Cmes	441.08	μF	electrical capacitance representing moving mass
Lces	44.44	mH	electrical inductance representing driver compliance
Res	193.705	Ohm	resistance due to mechanical losses
fs	35.95	Hz	driver resonance frequency
Mms	95.156	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd Rms Cms Kms Bl Lambda	87.448 1.118 0.206 4.855 14.688 0.002	g kg/s mm/N N/mm Tm	mechanical mass of voice coil and diaphragm without air load mechanical resistance of total-driver losses mechanical compliance of driver suspension mechanical stiffness of driver suspension force factor (BI product) suspension creep factor
Qtp Qms Qes Qts	0.7815 19.2855 0.744 0.716		total Q-factor considering all losses mechanical Q-factor of driver in free air considering Rms only electrical Q-factor of driver in free air considering Re only total Q-factor considering Re and Rms only
Vas n0 Lm Lnom	37.71175 0.227 85.755 86.05	l dB dB	equivalent air volume of suspension reference efficiency (2 pi-radiation using Re) characteristic sound pressure level (SPL at 1m for 1W @ Re) nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z rmse Hx	2.185 2.315		root-mean-square fitting error of driver impedance Z(f) root-mean-square fitting error of transfer function Hx (f)
Sd	359.68	cm²	diaphragm area
Xmax	10.3	mm	