

# Thiele/Small Parameters

## 41L782

Re	3.115	Ohm	electrical voice coil resistance at DC
Krm	0.02545	Ohm	WRIGHT inductance model
Erm	0.71		WRIGHT inductance model
Kxm	0.0673	Ohm	WRIGHT inductance model
Exm	0.65		WRIGHT inductance model
Cmes	848.62	µF	electrical capacitance representing moving mass
Lces	13.15	mH	electrical inductance representing driver compliance
Res	48.34	Ohm	resistance due to mechanical losses
fs	47.65	Hz	driver resonance frequency
Mms	170.598	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd	165.24	g	mechanical mass of voice coil and diaphragm without air load
Rms	4.1625	kg/s	mechanical resistance of total-driver losses
Cms	0.0655	mm/N	mechanical compliance of driver suspension
Kms	15.3	N/mm	mechanical stiffness of driver suspension
Bl	14.178	Tm	force factor (Bl product)
Lambda	0.112		suspension creep factor
Qtp	1.0615		total Q-factor considering all losses
Qms	12.2765		mechanical Q-factor of driver in free air considering Rms only
Qes	0.791		electrical Q-factor of driver in free air considering Re only
Qts	0.743		total Q-factor considering Re and Rms only
Vas	7.37575	l	equivalent air volume of suspension
n0	0.097		reference efficiency (2 pi-radiation using Re)
Lm	82.07	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	83.16	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	2.985		root-mean-square fitting error of driver impedance Z(f)
rmse Hx	2.325		root-mean-square fitting error of transfer function Hx (f)
Sd	282.24	cm <sup>2</sup>	diaphragm area
Xmax	17.5	mm	