

Thiele/Small Parameters

44L7S122

Name		Unit	Comment
Re Le Krm Erm Kxm Exm Cmes Lces Res fs	3.86 4.5005 0.018625 0.805 0.0866 0.68 843.6725 31.7125 69.165 30.85	Ohm mH Ohm Ohm µF mH Ohm Hz	electrical voice coil resistance at DC frequency independent part of voice coil inductance WRIGHT inductance model WRIGHT inductance model WRIGHT inductance model electrical capacitance representing moving mass electrical inductance representing driver compliance resistance due to mechanical losses driver resonance frequency
Mms Mmd Rms Cms Kms Bl Lambda	281.75825 263.24075 4.84575 0.09475 10.5875 18.2875 0.0485	g kg/s mm/N N/mm N/A	mechanical mass of driver diaphragm assembly including air load and voice coil 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
Loss factors Qtp Qms Qes Qts	0.7855 11.26875 0.6315 0.59775		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	55.76585 0.25 86.1675 86.32	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	2.215 1.875	% %	root-mean-square fitting error of driver impedance Z(f) root-mean-square fitting error of transfer function Hx (f)
Sd	645.17	cm ²	diaphragm area
Xmax	16.25	mm	

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