

Thiele/Small Parameters

44L7S102

	Unit	Comment
3.632	Ohm	electrical voice coil resistance at DC
3.8938	MH	Trequency independent part of voice coil inductance
0.01288	Onm	WRIGHT Inductance model
0.832	Ohm	WRIGHT Inductance model
0.0049	Unm	WRIGHT Inductance model
0.7	⊏	
30 21/	µr mH	electrical capacitatice representing moving mass
03.214	Ohm	resistance due to mechanical losses
30.41	H ₇	driver resonance frequency
02.12	1 12	diver resolutive frequency
206.1566	g	mechanical mass of driver diaphragm assembly including air load and voice coil
195.988	g	mechanical mass of voice coil and diaphragm without air load
3.5416	k̃g∕s	mechanical resistance of total-driver losses
0.1196	mm/N	mechanical compliance of driver suspension
8.422	N/mm	mechanical stiffness of driver suspension
18.1252	N/A	force factor (Bl product)
0.0313		suspension creep factor
0.566		total Q-factor considering all losses
11.812		mechanical Q-factor of driver in free air considering Rms only
0.4602		electrical Q-factor of driver in free air considering Re only
0.443		total Q-factor considering Re and Rms only
31 65348	I	equivalent air volume of suspension
0.2186	%	reference efficiency (2 pi-radiation using Re)
85.592	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
86.012	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
0.000	0/	
2.828	%	root-mean-square fitting error of driver impedance 2(f)
1.40/	70	root-mean-square litting error of transfer function HX (I)
432.636	cm²	diaphragm area
16.25	mm	
	3.632 3.8938 0.01288 0.832 0.0649 0.7 627.504 39.214 93.41 32.12 206.1566 195.988 3.5416 0.1196 8.422 18.1252 0.0313 0.566 11.812 0.4602 0.443 31.65348 0.2186 85.592 86.012 2.828 1.487 432.636 16.25	Unit 3.632 Ohm 3.8938 MH 0.01288 Ohm 0.832 Ohm 0.0649 Ohm 0.7 E27.504 39.214 MH 93.41 Ohm 32.12 Hz 206.1566 g 195.988 g 3.5416 g 0.1196 g/g/s 3.5416 N/mm N/A N/mm 8.422 N/mm 0.1196 g/g/s 3.5416 g 0.1196 g/g/s 3.5416 M/mm 0.0313 N/A 0.566 N/mm 11.812 O.4602 0.443 H 31.65348 I 0.2186 % 85.592 dB 86.012 dB 2.828 % 1.487 % 432.636 cm² 16.25 mm

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