

Driver Name: 902.214  
 Driver Comment:  
 Measurement: LPM Woofer T/S Sp2-1#  
 Measurement Measures linear parameters of woofers.  
 Comment: Driver connected to output SPEAKER 2.

## Linear parameters

Name	Value	Unit	Comment
Electrical Parameters			
Re	7.12	Ohm	electrical voice coil resistance at DC
Le	1.021	mH	frequency independent part of voice coil inductance
L2	1.090	mH	para-inductance of voice coil
R2	2.98	Ohm	electrical resistance due to eddy current losses
Cmes	651.69	$\mu$ F	electrical capacitance representing moving mass
Lces	20.27	mH	electrical inductance representing driver compliance
Res	24.26	Ohm	resistance due to mechanical losses
fs	43.8	Hz	driver resonance frequency
Mechanical Parameters			
(using laser)			
Mms	68.146	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd (Sd)	60.862	g	mechanical mass of voice coil and diaphragm without air load
Rms	4.310	kg/s	mechanical resistance of total-driver losses
Cms	0.194	mm/N	mechanical compliance of driver suspension
Kms	5.16	N/mm	mechanical stiffness of driver suspension
Bl	10.226	N/A	force factor (Bl product)
Lambda s	0.042		suspension creep factor
Loss factors			
Qtp	0.990		total Q-factor considering all losses
Qms	4.350		mechanical Q-factor of driver in free air considering Rms only
Qes	1.277		electrical Q-factor of driver in free air considering Re only

Qts	0.987		total Q-factor considering Re and Rms only
Other Parameters			
Vas	32.9119	l	equivalent air volume of suspension
n0	0.208	%	reference efficiency (2 pi-radiation using Re)
Lm	85.38	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	85.89	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	2.47	%	root-mean-square fitting error of driver impedance Z(f)
rmse Hx	2.72	%	root-mean-square fitting error of transfer function Hx (f)
Series resistor	0.00	Ohm	resistance of series resistor
Sd	346.36	cm2	diaphragm area