## **General Report**

Driver Name: Customer Woofer

Driver Comment: Example driver for Large Signal Identification Power Test, Auralization, Linear Parameter Measurement

Measurement: PSL 320 Fuchs 4

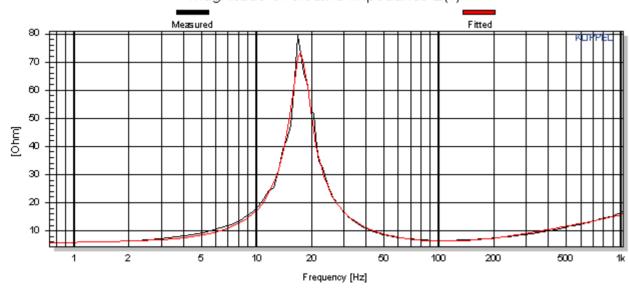
Measurement Comment: unbeschichtet -2-fach nachgetränkte Membran/ 8 Ohm

TSP-mod. Impuls-Mag - 1,1

Name	Value	Unit	Comment
Electrical Parameters			
Re	5.87	Ohm	electrical voice coil resistance at DC
Le	1.570	mH	frequency independent part of voice coil inductance
L2	2.158	mH	para-inductance of voice coil
R2	5.72	Ohm	electrical resistance due to eddy current losses
Cmes	514.53	μF	electrical capacitance representing moving mass
Lces	162.14	mH	electrical inductance representing driver compliance
Res	67.86	Ohm	resistance due to mechanical losses
fs	17.4	Hz	driver resonance frequency
		•	
Mechanical Parameters			
(using laser)			
Mms	87.088	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd (Sd)	80.558	g	mechanical mass of voice coil and diaphragm without air load
Rms	2.494	kg/s	mechanical resistance of total-driver losses
Cms	0.958	mm/N	mechanical compliance of driver suspension
Kms	1.04	N/mm	mechanical stiffness of driver suspension
Bl	13.01	N/A	force factor (Bl product)
Lambda s	-0.024		suspension creep factor

Loss factors			
Qtp	0.305		total Q-factor considering all losses
Qms	3.823		mechanical Q-factor of driver in free air considering Rms only
Qes	0.330		electrical Q-factor of driver in free air considering Re only
Qts	0.304		total Q-factor considering Re and Rms only
Vas	353.5930	1	equivalent air volume of suspension
n0	0.544	%	reference efficiency (2 pi-radiation using Re)
Lm	89.56	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	90.91	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	12.16	%	root-mean-square fitting error of driver impedance Z(f)
rmse Hx	3.09	%	root-mean-square fitting error of transfer function Hx (f)
Series resistor	0.00	Ohm	resistance of series resistor
Sd	510.71	cm <sup>2</sup>	diaphragm area

## Magnitude of electric impedance Z(f)



Report generated:

 Date:
 02/13/14

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 16:04:46

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