

General Report

Driver Name: Customer Woofer

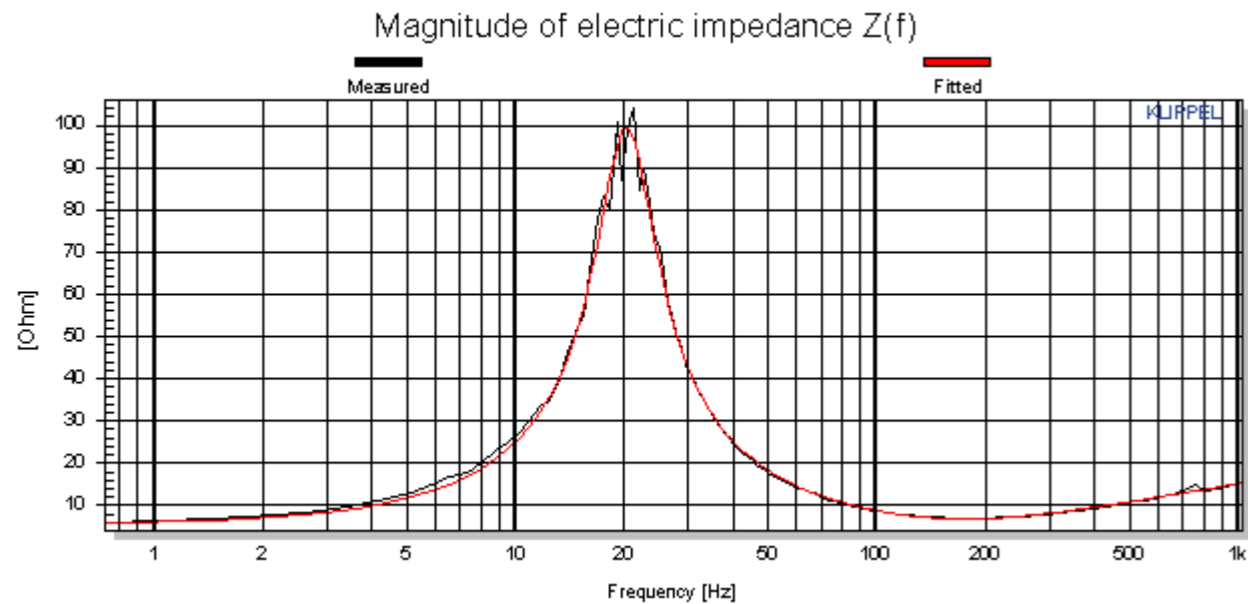
Driver Comment: Example driver for
Large Signal Identification
Power Test, Auralization,
Linear Parameter Measurement

Measurement: PSL 320 Fuchs Lsp 4 von 4

Measurement Comment: unbeschichtet / 8 Ohm

Name	Value	Unit	Comment
Electrical Parameters			
Re	5.92	Ohm	electrical voice coil resistance at DC
Le	1.305	mH	frequency independent part of voice coil inductance
L2	2.009	mH	para-inductance of voice coil
R2	6.67	Ohm	electrical resistance due to eddy current losses
Cmes	217.84	μ F	electrical capacitance representing moving mass
Lces	282.32	mH	electrical inductance representing driver compliance
Res	93.60	Ohm	resistance due to mechanical losses
fs	20.3	Hz	driver resonance frequency
Mechanical Parameters			
(using laser)			
Mms	68.462	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd (Sd)	61.932	g	mechanical mass of voice coil and diaphragm without air load
Rms	3.358	kg/s	mechanical resistance of total-driver losses
Cms	0.898	mm/N	mechanical compliance of driver suspension
Kms	1.11	N/mm	mechanical stiffness of driver suspension
Bl	17.73	N/A	force factor (Bl product)
Lambda s	-0.040		suspension creep factor

Loss factors			
Qtp	0.155		total Q-factor considering all losses
Qms	2.600		mechanical Q-factor of driver in free air considering Rms only
Qes	0.164		electrical Q-factor of driver in free air considering Re only
Qts	0.155		total Q-factor considering Re and Rms only
Vas	331.5917	l	equivalent air volume of suspension
n0	1.621	%	reference efficiency (2 pi-radiation using Re)
Lm	94.30	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	95.61	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	7.58	%	root-mean-square fitting error of driver impedance Z(f)
rmse Hx	2.70	%	root-mean-square fitting error of transfer function Hx (f)
Series resistor	0.00	Ohm	resistance of series resistor
Sd	510.71	cm ²	diaphragm area

**Report generated:**

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