

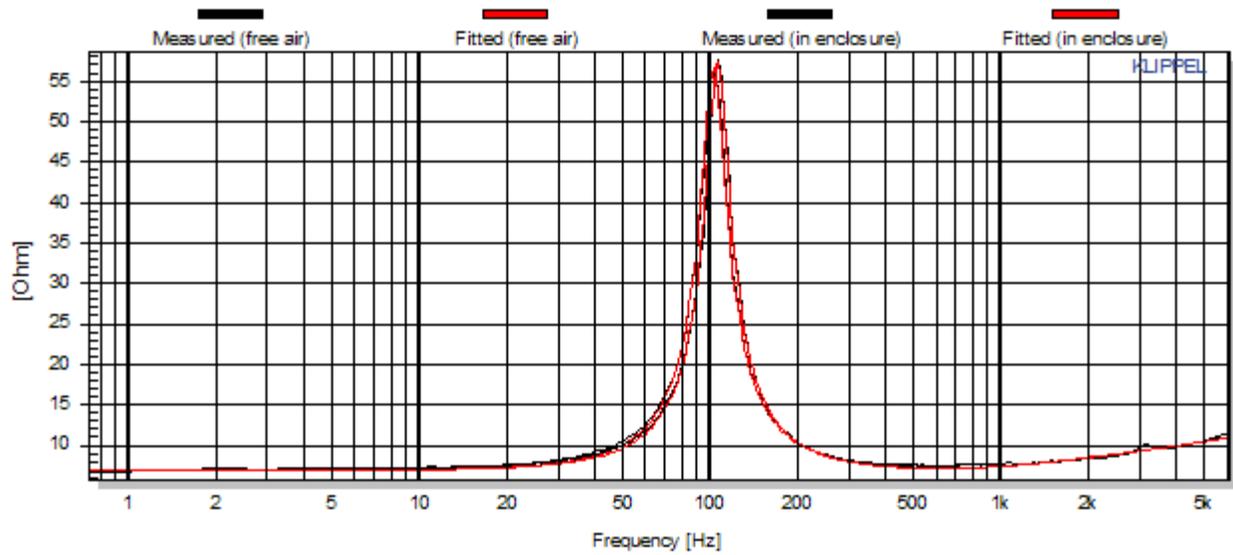
Faital 4FE30

Name	Value	Unit	Comment
Electrical Parameters			
Re	6.87	Ohm	electrical voice coil resistance at DC
Le	0.136	mH	frequency independent part of voice coil inductance
L2	0.192	mH	para-inductance of voice coil
R2	2.72	Ohm	electrical resistance due to eddy current losses
Cmes	153	μ F	electrical capacitance representing moving mass
Lces	15.63	mH	electrical inductance representing driver compliance
Res	49.68	Ohm	resistance due to mechanical losses
fs	102.9	Hz	driver resonance frequency

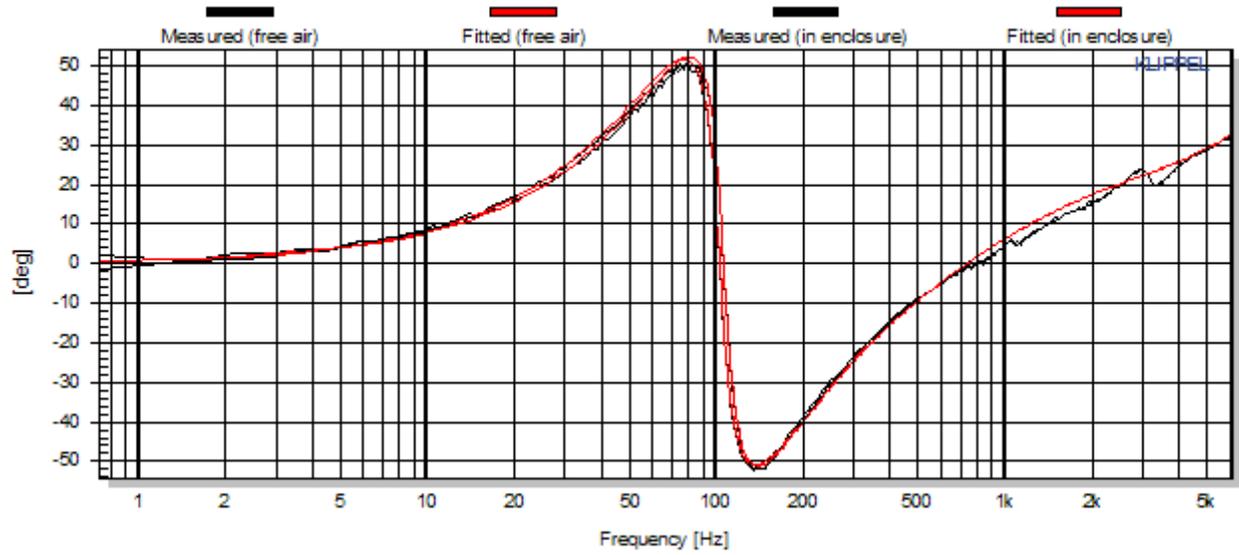
f ct	106.3	Hz	driver resonance frequency in enclosure
Mechanical Parameters			
(using test encl.)			
Mms	2.380	g	mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd (Sd)	2.240	g	mechanical mass of voice coil and diaphragm without air load
Rms	0.313	kg/s	mechanical resistance of total-driver losses
Cms	1.005	mm/N	mechanical compliance of driver suspension
Kms	0.99	N/mm	mechanical stiffness of driver suspension
Bl	3.943	N/A	force factor (Bl product)
Loss factors			
Qtp	0.598		total Q-factor considering all losses
Qms	4.918		mechanical Q-factor of driver in free air considering Rms only
Qes	0.680		electrical Q-factor of driver in free air considering Re only

Qts	0.598		total Q-factor considering Re and Rms only
Vas	2.2303	l	equivalent air volume of suspension
n0	0.343	%	reference efficiency (2 pi-radiation using Re)
Lm	87.55	dB	characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom	85.20	dB	nominal sensitivity (SPL at 1m for 1W @ Zn)
rmse Z	2.77	%	root-mean-square fitting error of driver impedance Z(f)
Series resistor	0.00	Ohm	resistance of series resistor
Vbox	31.856	l	volume of enclosure
Sd	39.59	cm ²	diaphragm area

Magnitude of electric impedance Z(f)



Phase of electric impedance $Z(f)$



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