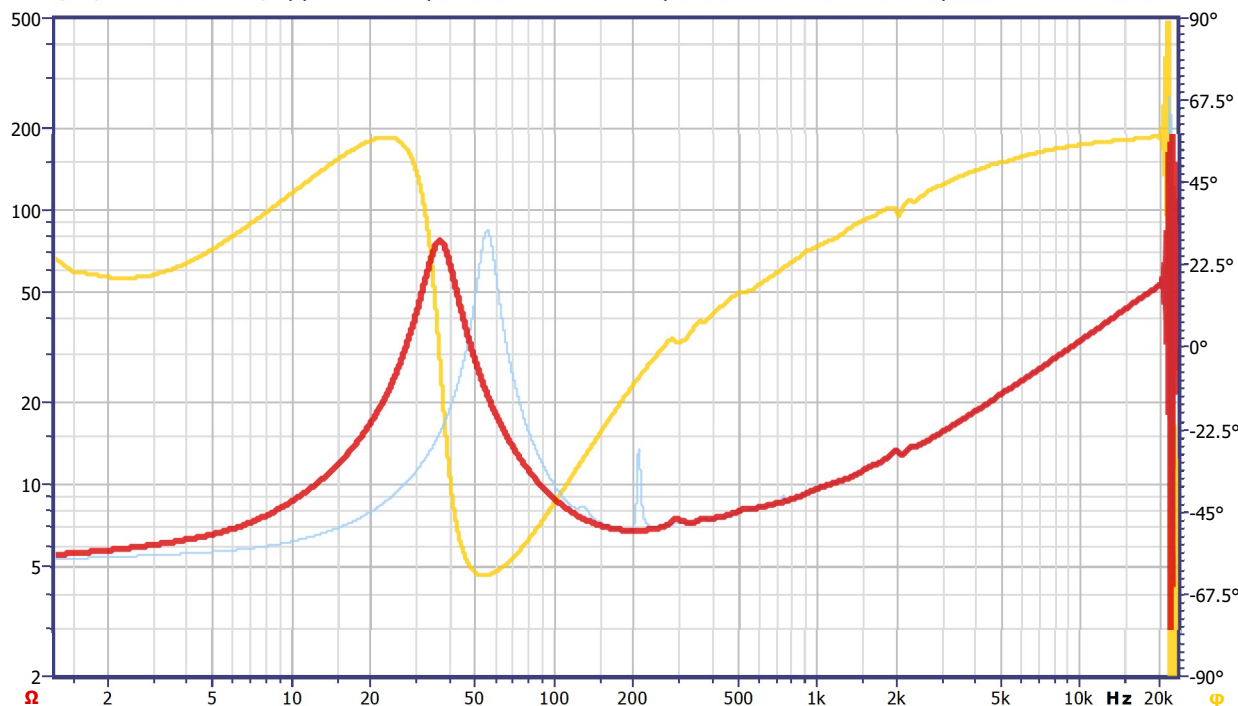


Impedance Measurement

Thiele-Small Parameters

File: C:/.../BMS 12s305 8/Uppmätta TS-parametrar Delta compliance BMS 12s305-8 högtalare 1

Date: Mon Jul 24 09:45:39 2023



Manufacturer: BMS
Model: 12s305-8 högtalare 1 vänster
Method: Delta Compliance
Test volume: 52,85L
Inductor model: Standard

Parameters:

| | | | | | |
|---------------------------------|-------------|--------------------|---|--------------|------------------|
| Resonance frequency in free air | fs | 36,62Hz | Voice coil inductance [@10kHz] | Le10k | 0,4392mH |
| Equivalent air volume | Vas | 66,964L | Voice coil inductance [Average] | LeAve | 0,5314mH |
| Effective cone diameter | D | 25,61cm | Half space reference efficiency | no | 3,7401% |
| Effective piston area | Sd | 515cm ² | Half space reference sensitivity | Lm | 97,75dB-1W/1m |
| Moving mass including air load | Mms | 106,2243g | Nominal sensitivity | Lnom | 99,62dB-2,83V/1m |
| Moving mass excluding air load | Mmd | 92,784g | Electrical capacitance (moving mass) | Cmes | 245,1929µF |
| Mechanical compliance | Cms | 0,1778mm/N | Electrical inductance (compliance) | Lces | 77,0278mH |
| Mechanical stiffness | Kms | 5,6243N/mm | Resistance due to mechanical losses | Res | 72,0264Ω |
| Mechanical resistance | Rms | 6,0148kg/s | Motor efficiency factor (BL ² /Revc) | β | 83,31 |
| Force factor | BL | 20,8141N/A | Acceleration factor (BL/Mms) | - | 195,94 |
| Mechanical Q factor | Qms | 4,0637 | Ratio (BL/√Revc) | - | 9,13 |
| Electrical Q factor | Qes | 0,2934 | Ratio (fs/Qts) | F | 133,84 |
| Total Q factor | Qts | 0,2736 | Efficiency bandwidth product (fs/Qes) | EBP | 124,83 |
| Voice-Coil D.C. resistance | Revc | 5,2Ω | | | |
| Nominal impedance | Znom | 6Ω | | | |
| Maximum impedance [@fs] | Zmax | 77,2264Ω | | | |
| Voice coil inductance [@1kHz] | Le1k | 0,7134mH | | | |