

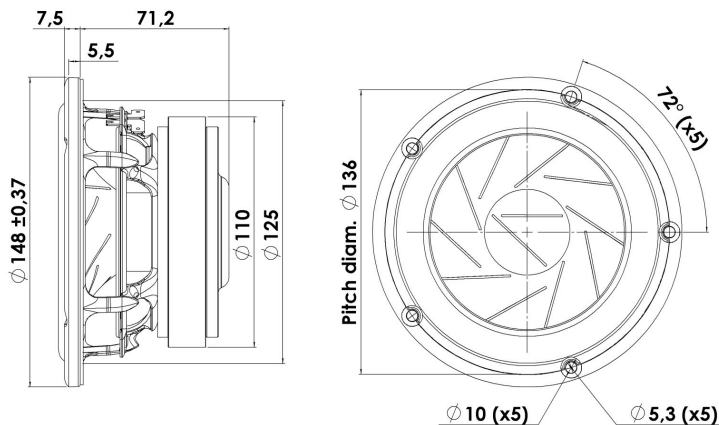


REVELATOR

MIDRANGE

15M/4531K00

The Revelator midranges are well known for their sliced paper cone technology. The slices are filled with damping glue, which dramatically reduces break-up modes in the diaphragm. In combination with Scan-Speaks low-loss linear suspension and the patented Symmetrical Drive (SD-1) it represented a breakthrough in midrange clarity and overall smooth frequency response characteristics.



KEY FEATURES:

- Excellent Midrange Reproduction
- Sliced Cone (Controls Cone Breakups)
- High Output 90dB @ 2,83V
- Patented Symmetrical Drive motor design
- Low-loss linear suspension
- Die cast Alu Chassis vented below spider

T-S Parameters

Resonance frequency [fs]	42 Hz
Mechanical Q factor [Qms]	4.8
Electrical Q factor [Qes]	0.28
Total Q factor [Qts]	0.27
Force factor [Bl]	6 Tm
Mechanical resistance [Rms]	0.6 kg/s
Moving mass [Mms]	11 g
Compliance [Cms]	1.3 mm/N
Effective diaph. diameter [D]	110 mm
Effective piston area [Sd]	95 cm ²
Equivalent volume [Vas]	16 l
Sensitivity (2.83V/1m)	89.5 dB
Ratio Bl/√Re	3.21 N/√W
Ratio fs/Qts	157 Hz

Notes:

IEC specs. refer to IEC 60268-5 third edition.
All Scan-Speak products are RoHS compliant.
Data are subject to change without notice.
Datasheet updated: December 12, 2019.

Electrical Data

Nominal impedance [Zn]	4 Ω
Minimum impedance [Zmin]	4.1 Ω
Maximum impedance [Zo]	53 Ω
DC resistance [Re]	3.5 Ω
Voice coil inductance [Le]	0.16 mH

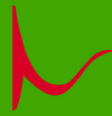
Power Handling

100h RMS noise test (IEC 17.1)	50 W
Long-term max power (IEC 17.3)	150 W

Voice Coil & Magnet Data

Voice coil diameter	38 mm
Voice coil height	11 mm
Voice coil layers	2
Height of gap	5 mm
Linear excursion	± 3 mm
Max mech. excursion	± 8 mm
Unit weight	1.7 kg

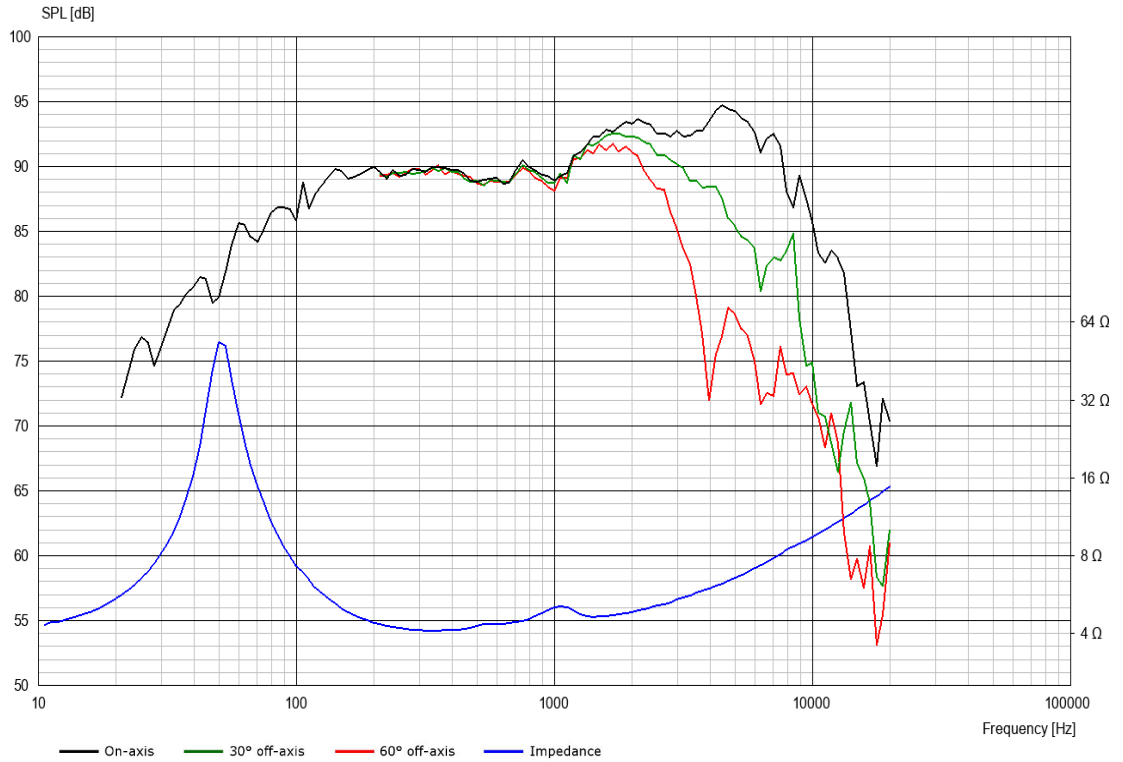




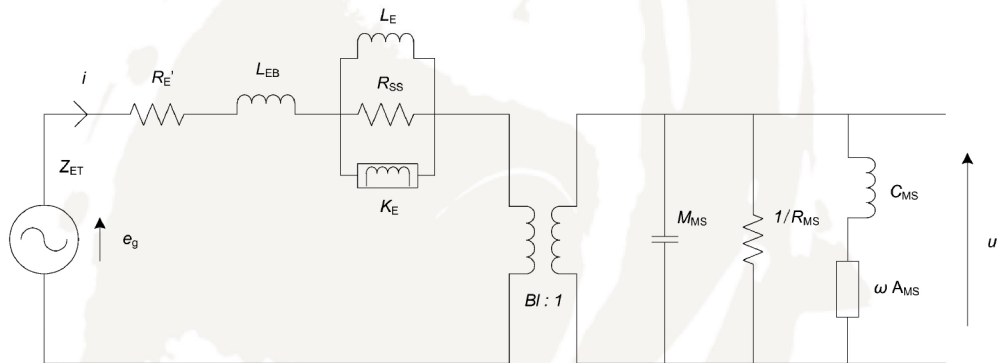
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Advanced Parameters (Preliminary)



Electrical data

Resistance [$R_{E'}$]	3.52 Ω
Free inductance [L_{EB}]	0.061 mH
Bound inductance [L_E]	1.34 mH
Semi-inductance [K_E]	0.016 SH
Shunt resistance [R_{SS}]	438 Ω

Mechanical Data

Force Factor [Bl]	5.46 Tm
Moving mass [M_{MS}]	10.9 g
Compliance [C_{MS}]	1.12 mm/N
Mechanical resistance [R_{MS}]	0.43 kg/s
Admittance [A_{MS}]	0.10 mm/N