

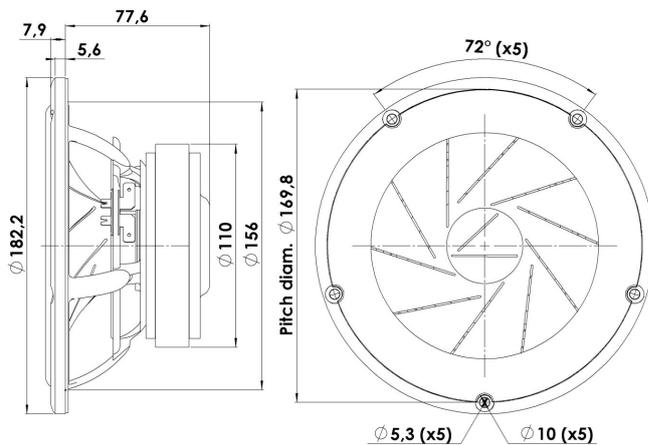


REVELATOR

MIDWOOFER

18W/4531G00

The Revelator midrange and midwoofers, both 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:

- Patented Symmetrical Drive Motor Design
- Low-Loss linear suspension
- Die cast Alu Chassis vented below spider
- Sliced Cone (Controls Cone Breakups)
- Low Damping SBR Rubber Surround
- Large Ferrite Magnet System

T-S Parameters

Resonance frequency [fs]	33 Hz
Mechanical Q factor [Qms]	5.20
Electrical Q factor [Qes]	0.38
Total Q factor [Qts]	0.35
Force factor [Bl]	5.7 Tm
Mechanical resistance [Rms]	0.70 kg/s
Moving mass [Mms]	17.5 g
Compliance [Cms]	1.33 mm/N
Effective diaph. diameter [D]	138 mm
Effective piston area [Sd]	150 cm ²
Equivalent volume [Vas]	41.9 l
Sensitivity (2.83V/1m)	90 dB
Ratio Bl/√Re	3.09 N/√W
Ratio fs/Qts	93 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: March 27, 2013.

Electrical Data

Nominal impedance [Zn]	4 Ω
Minimum impedance [Zmin]	4.2 Ω
Maximum impedance [Zo]	49.9 Ω
DC resistance [Re]	3.4 Ω
Voice coil inductance [Le]	0.3 mH

Power Handling

100h RMS noise test (IEC 17.1)	70 W
Long-term max power (IEC 17.3)	110 W

Voice Coil & Magnet Data

Voice coil diameter	38 mm
Voice coil height	17.5 mm
Voice coil layers	2
Height of gap	5 mm
Linear excursion	± 6.5 mm
Max mech. excursion	± 11 mm
Unit weight	1.7 kg

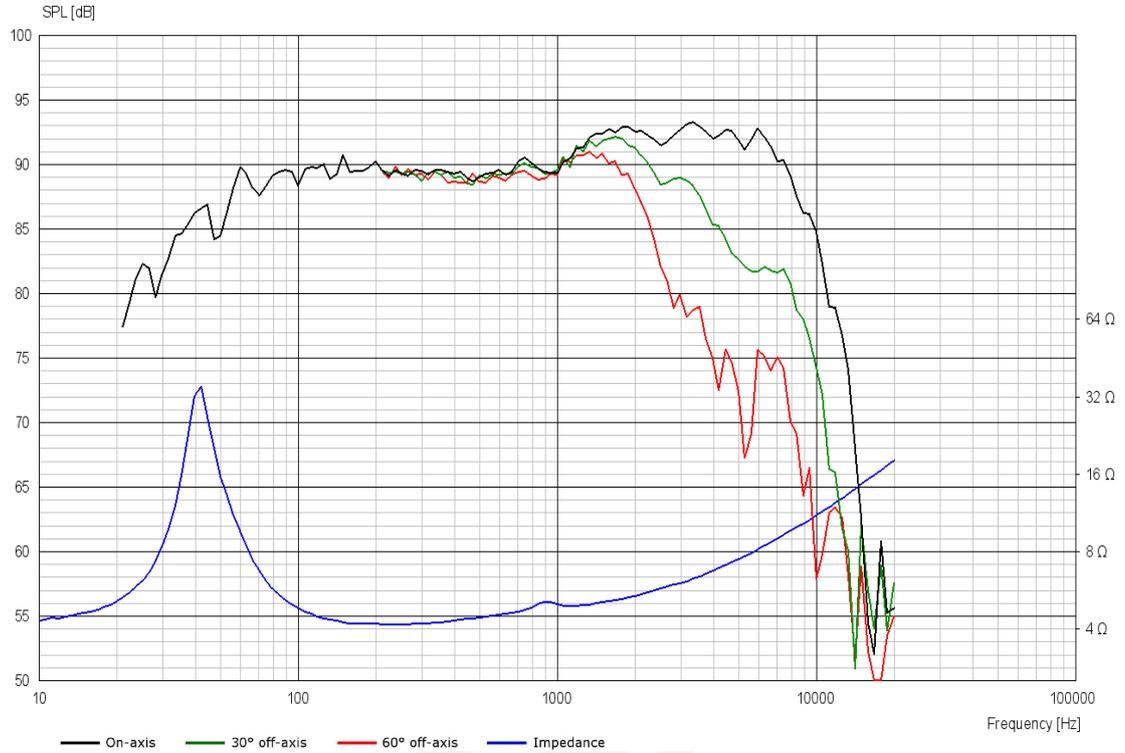




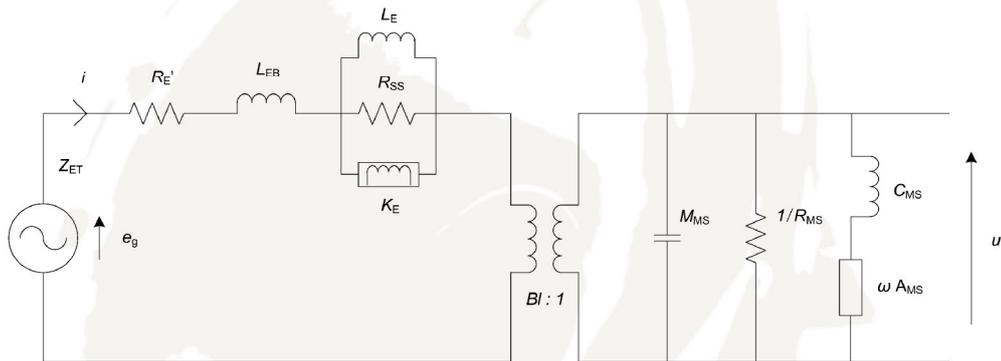
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Advanced Parameters (Preliminary)



Electrical data

Resistance [$R_{E'}$]	3.39 Ω
Free inductance [L_{EB}]	0.0891 mH
Bound inductance [L_E]	1.59 mH
Semi-inductance [K_E]	0.0169 SH
Shunt resistance [R_{SS}]	32.6 Ω

Mechanical Data

Force Factor [Bl]	5.33 Tm
Moving mass [M_{MS}]	17.6 g
Compliance [C_{MS}]	0.621 mm/N
Mechanical resistance [R_{MS}]	0.620 kg/s
Admittance [A_{MS}]	0.0483 mm/N

