

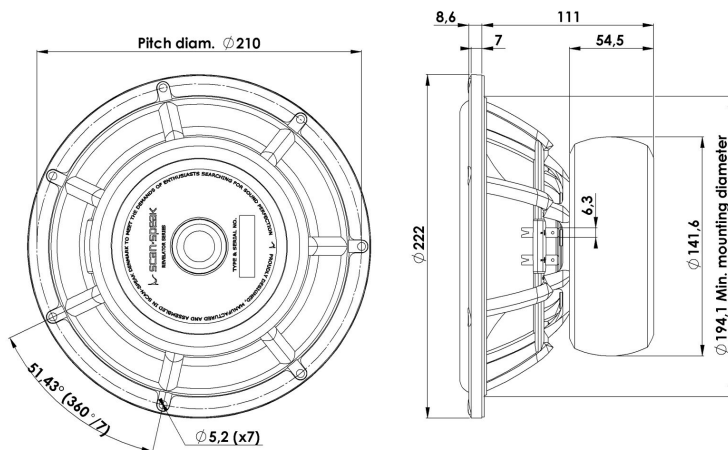


REVELATOR

WOOFER

22W/8857T00

The Revelator woofers and subwoofers features very rigid cones in paper or aluminium that operates as a piston over a wide frequency range, in combination with Scan-Speaks low-loss linear suspension and the patented Symmetrical Drive (SD-1) it results in very low distortion and a smooth and well behaved frequency response as well as perfect transient reproduction.



KEY FEATURES:

- Patented Symmetrical Drive Motor Design
- Low-Loss linear suspension
- Die cast Alu Chassis vented below spider
- Rigid Black Anodized Alu Cone
- Low Damping SBR Rubber Surround
- Ferrite Magnet System w. Rubber Boot

T-S Parameters

Resonance frequency [fs]	23 Hz
Mechanical Q factor [Qms]	4.90
Electrical Q factor [Qes]	0.32
Total Q factor [Qts]	0.30
Force factor [Bl]	10.1 Tm
Mechanical resistance [Rms]	1.09 kg/s
Moving mass [Mms]	37 g
Compliance [Cms]	1.29 mm/N
Effective diaph. diameter [D]	167 mm
Effective piston area [Sd]	220 cm ²
Equivalent volume [Vas]	87.7 l
Sensitivity (2.83V/1m)	86 dB
Ratio Bl/√Re	4.06 N/√W
Ratio fs/Qts	77 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: April 23, 2014.

Electrical Data

Nominal impedance [Zn]	8 Ω
Minimum impedance [Zmin]	7.2 Ω
Maximum impedance [Zo]	101 Ω
DC resistance [Re]	6.2 Ω
Voice coil inductance [Le]	0.35 mH

Power Handling

100h RMS noise test (IEC 17.1)	80 W
Long-term max power (IEC 17.3)	200 W

Voice Coil & Magnet Data

Voice coil diameter	50 mm
Voice coil height	24 mm
Voice coil layers	2
Height of gap	6 mm
Linear excursion	± 9 mm
Max mech. excursion	± 14 mm
Unit weight	3.6 kg

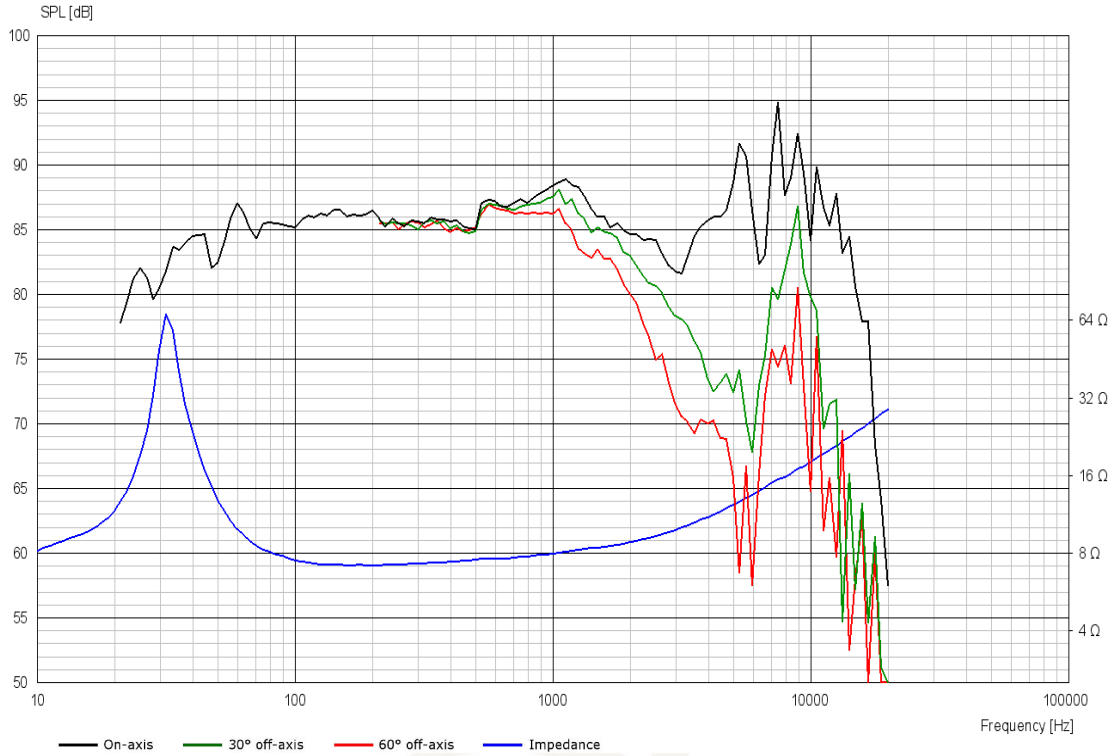




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Advanced Parameters (Preliminary)



Electrical data

Resistance [$R_{E'}$]	6.31 Ω
Free inductance [L_{EB}]	0.180 mH
Bound inductance [L_E]	12.8 mH
Semi-inductance [K_E]	0.0257 SH
Shunt resistance [R_{SS}]	30.6 Ω

Mechanical Data

Force Factor [BI]	8.78 Tm
Moving mass [M_{MS}]	38.4 g
Compliance [C_{MS}]	0.666 mm/N
Mechanical resistance [R_{MS}]	0.840 kg/s
Admittance [A_{MS}]	0.0488 mm/N

