

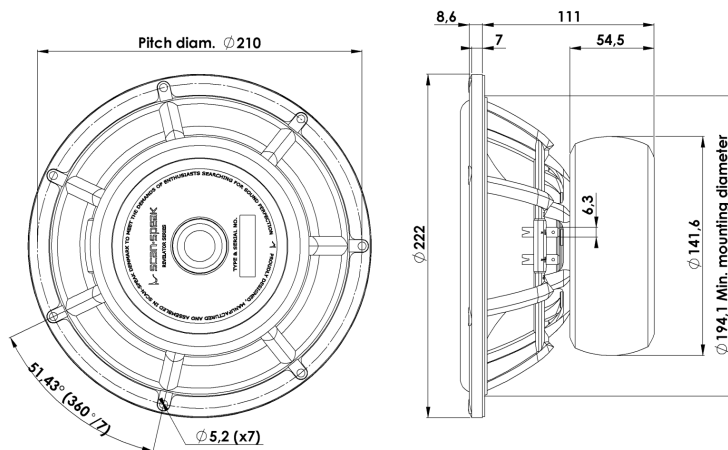


# REVELATOR

## WOOFER

## 22W/8851T00

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 Paper Cone
- Low Damping SBR Rubber Surround
- Ferrite Magnet System w. Rubber Boot

#### T-S Parameters

Resonance frequency [fs]	21 Hz
Mechanical Q factor [Qms]	5.10
Electrical Q factor [Qes]	0.26
Total Q factor [Qts]	0.25
Force factor [Bl]	9.9 Tm
Mechanical resistance [Rms]	0.80 kg/s
Moving mass [Mms]	31 g
Compliance [Cms]	1.85 mm/N
Effective diaph. diameter [D]	167 mm
Effective piston area [Sd]	220 cm <sup>2</sup>
Equivalent volume [Vas]	126 l
Sensitivity (2.83V/1m)	88 dB
Ratio Bl/√Re	3.98 N/√W
Ratio fs/Qts	85 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 $\Omega$
Minimum impedance [Zmin]	7.2 $\Omega$
Maximum impedance [Zo]	128 $\Omega$
DC resistance [Re]	6.2 $\Omega$
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	$\pm 9$ mm
Max mech. excursion	$\pm 14$ mm
Unit weight	3.6 kg

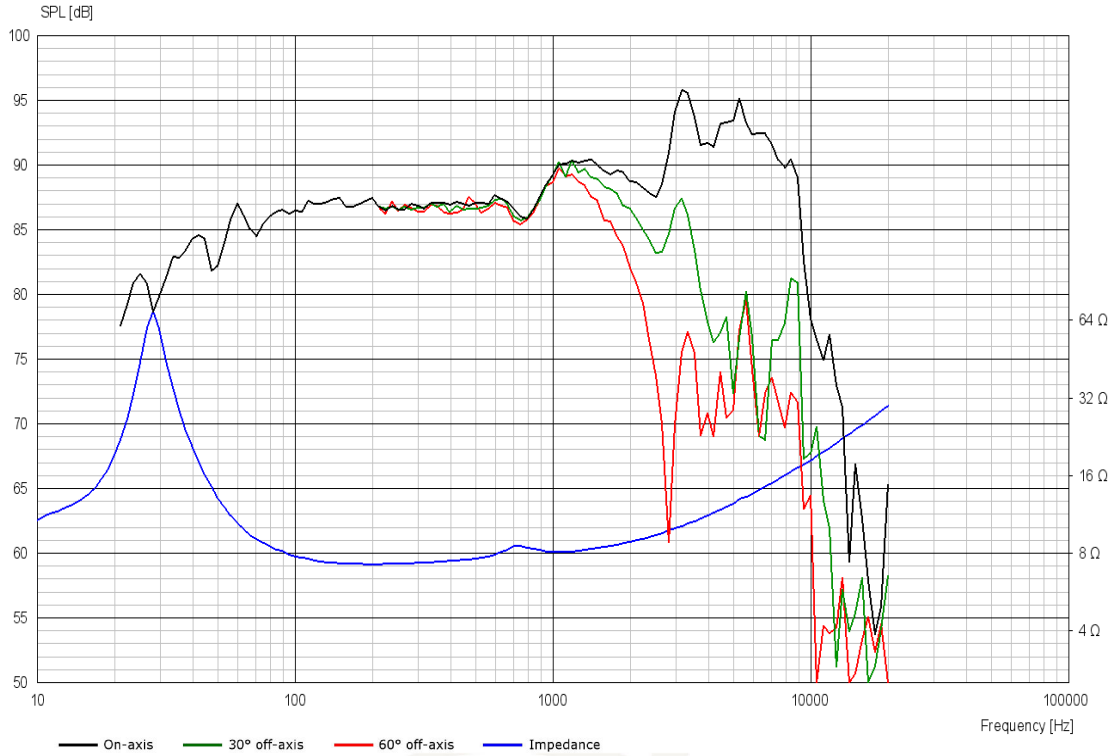




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### Advanced Parameters (Preliminary)



#### Electrical data

Resistance [ $R_{E'}$ ]	6.38 $\Omega$
Free inductance [ $L_{EB}$ ]	0.175 mH
Bound inductance [ $L_E$ ]	12.52 mH
Semi-inductance [ $K_E$ ]	0.025 SH
Shunt resistance [ $R_{SS}$ ]	564 $\Omega$

#### Mechanical Data

Force Factor [ $BI$ ]	9.20 Tm
Moving mass [ $M_{MS}$ ]	34.0 g
Compliance [ $C_{MS}$ ]	1.74 mm/N
Mechanical resistance [ $R_{MS}$ ]	0.92 kg/s
Admittance [ $A_{MS}$ ]	0.31 mm/N

