MIDWOOFER 15W/8531K00

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 \([fs]\) 32 Hz
- Mechanical Q factor \([Qms]\) 5.23
- Electrical Q factor \([Qes]\) 0.33
- Total Q factor \([Qts]\) 0.31
- Force factor \([Bl]\) 6.8 Tm
- Mechanical resistance \([Rms]\) 0.50 kg/s
- Moving mass \([Mms]\) 1.3 g
- Suspension compliance \([Cms]\) 1.90 mm/N
- Effective diaph. diameter \([D]\) 110 mm
- Effective piston area \([Sd]\) 95 cm²
- Equivalent volume \([Vas]\) 24.0 l
- Sensitivity (2.83V/1m) 85.5 dB
- Ratio Bl/VRe 2.82 N/V/W
- Ratio fs/Qts 103 Hz

Notes:
All Scan-Speak products are RoHS compliant.
Data are subject to change without notice.

Electrical Data
- Nominal impedance \([Zn]\) 8 Ω
- Minimum impedance \([Zmin]\) 6.8 Ω
- Maximum impedance \([Zo]\) 97.7 Ω
- DC resistance \([Re]\) 5.8 Ω
- Voice coil inductance \([Le]\) 0.35 mH

Power Handling
- 100h RMS noise test (IEC 17.1) 60 W
- Long-term max power (IEC 17.3) - W

Voice Coil and Magnet Data
- Voice coil diameter 38 mm
- Voice coil height 18 mm
- Voice coil layers 2
- Height of gap 5 mm
- Linear excursion ± 6.5 mm
- Max mech. excursion ± 9 mm
- Unit weight 1.7 kg
Advanced Parameters (Preliminary)

**Electrical data:**
- Resistance $[\text{Re}']$: $6.18 \, \Omega$
- Free inductance $[\text{Leb}]: 0.176 \, \text{mH}$
- Bound inductance $[\text{Le}]: 0.430 \, \text{mH}$
- Semi-inductance $[\text{Ke}]: 110 \, \text{SH}$
- Shunt resistance $[\text{Rss}]: 4.07 \, \Omega$

**Mechanical Data:**
- Force Factor $[\text{Bl}]: 6.12 \, \text{Tm}$
- Moving mass $[\text{Mms}]: 12.1 \, \text{g}$
- Compliance $[\text{Cms}]: 1.70 \, \text{mm/N}$
- Mechanical resistance $[\text{Rms}]: 0.141 \, \text{kg/s}$
- Admittance $[\text{Ams}]: 0.215 \, \text{mm/N}$