MIDWOOFER 15W/8530K01

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
- Coated Paper Cone
- Low Damping SBR Rubber Surround
- Sliced Cone (Controls Cone Breakups)
- Low-Loss linear suspension
- Die cast Alu Chassis vented below spider

T-S Parameters
- Resonance frequency [fs] 32 Hz
- Mechanical Q factor [Qms] 5.23
- Electrical Q factor [Qes] 0.44
- Total Q factor [Qts] 0.41
- Force factor [Bl] 5.9 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) 84.5 dB
- Ratio Bl/v/Re 2.45 N/V/W
- Ratio fs/Qts 79 Hz

Electrical Data
- Nominal impedance [Zn] 8 Ω
- Minimum impedance [Zmin] 6.9 Ω
- Maximum impedance [Zo] 74.7 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 1.2 kg

Notes:
All Scan-Speak products are RoHS compliant.
Data are subject to change without notice.
Advanced Parameters (Preliminary)

**Electrical data:**
- Resistance \(R_e'\) = 5.93 Ω
- Free inductance \(L_{eb}\) = 0.131 mH
- Bound inductance \(L_e\) = 0.927 mH
- Semi-inductance \(K_e\) = 0.0232 SH
- Shunt resistance \(R_{ss}\) = 1813 Ω

**Mechanical Data:**
- Force Factor \(B_l\) = 4.97 Tm
- Moving mass \(M_{ms}\) = 13.2 g
- Compliance \(C_{ms}\) = 1.68 mm/N
- Mechanical resistance \(R_{ms}\) = 0.138 kg/s
- Admittance \(A_{ms}\) = 0.224 mm/N