MIDWOOFER 18W/8535-01

This unit is an improved version of the highly praised 18W/8535-00 midwoofer, where a new aluminum chassis and an updated cone as well as a few other details are introduced, these updates improves mechanical stability and sound performance. High-quality magnet system design with patented Symmetric Drive(SD-1) continues to be key feature.

KEY FEATURES:
- Patented Symmetrical Drive Motor Design
- 38m Voice Coil
- Low Damping SBR Rubber Surround
- Coated Air Dried Paper/Carbon Fibre Cone
- Low-Loss linear suspension
- Aluminium Chassis

T-S Parameters
- Resonance frequency [fs] 25 Hz
- Mechanical Q factor [Qms] 2.1
- Electrical Q factor [Qes] 0.46
- Total Q factor [Qts] 0.38
- Force factor [Bl] 5.9 Tm
- Mechanical resistance [Rms] 1.33 kg/s
- Moving mass [Mms] 17.2 g
- Compliance [Cms] 2.30 mm/N
- Effective diaph. diameter [D] 136 mm
- Effective piston area [Sd] 145 cm²
- Equivalent volume [Vas] 68.9 l
- Sensitivity (2.83V/1m) 87.2 dB
- Ratio Bl/√Re 2.44 N/√W
- Ratio fs/Qts 67.4 Hz

Electrical Data
- Nominal impedance [Zn] 8 Ω
- Minimum impedance [Zmin] 6.8 Ω
- Maximum impedance [Zo] 32 Ω
- DC resistance [Re] 5.85 Ω
- Voice coil inductance [Le] 0.33 mH

Power Handling
- 100h RMS noise test (IEC 17.1) 70 W
- Long-term max power (IEC 17.3) 190 W

Voice Coil & Magnet Data
- Voice coil diameter 38 mm
- Voice coil height 15 mm
- Voice coil layers 2
- Height of gap 5 mm
- Linear excursion ± 5 mm
- Max mech. excursion ± 10 mm
- Unit weight 1.1 kg

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

**Electrical data**
- Resistance \([R_e']\): 6.23 Ω
- Free inductance \([L_{eb}]\): 0.089 mH
- Bound inductance \([L_e]\): 2.39 mH
- Semi-inductance \([K_e]\): 0.028 SH
- Shunt resistance \([R_{ss}]\): 237 Ω

**Mechanical Data**
- Force Factor \([B_l]\): 5.93 Tm
- Moving mass \([M_{ms}]\): 17.2 g
- Compliance \([C_{ms}]\): 2.28 mm/N
- Mechanical resistance \([R_{ms}]\): 1.33 kg/s
- Admittance \([A_{ms}]\): 0.34 mm/N