This unit is an improved version of the highly praised 18W/8545-00 midwoofer, where a new aluminum chassis, an updated cone and a new spider 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
- 42mm Voice Coil w. Alu foil
- Low Damping SBR Rubber Surround
- Coated Air Dried Paper/Carbon Fibre Cone
- Low-Loss linear suspension
- Aluminium Chassis

**T-S Parameters**
- Resonance frequency \([f_s]\) 25 Hz
- Mechanical Q factor \([Q_{ms}]\) 1.55
- Electrical Q factor \([Q_{es}]\) 0.22
- Total Q factor \([Q_{ts}]\) 0.20
- Force factor \([B_l]\) 8.4 Tm
- Mechanical resistance \([R_{ms}]\) 1.8 kg/s
- Moving mass \([M_{ms}]\) 18 g
- Suspension compliance \([C_{ms}]\) 2.3 mm/N
- Effective diaph. diameter \([D]\) 136 mm
- Effective piston area \([S_d]\) 145 cm²
- Equivalent volume \([V_{as}]\) 68.6 l
- Sensitivity (2.83V/1m) 88 dB
- Ratio \(B_l/V_{Re}\) 3.53 N/√W
- Ratio \(f_s/Q_{ts}\) 125 Hz

**Electrical Data**
- Nominal impedance \([Z_n]\) 8 Ω
- Minimum impedance \([Z_{min}]\) 6.2 Ω
- Maximum impedance \([Z_{o}]\) 45 Ω
- DC resistance \([R_e]\) 5.7 Ω
- Voice coil inductance \([L_e]\) 0.39 mH

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

**Voice Coil and Magnet Data**
- Voice coil diameter 42 mm
- Voice coil height 19 mm
- Voice coil layers 2
- Height of gap 6 mm
- Linear excursion ± 6.5 mm
- Max mech. excursion ± 10 mm
- Unit weight 2.3 kg

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

**Electrical data**
- Resistance \([R_{e}']\): 5.92 \(\Omega\)
- Free inductance \([L_{eb}]\): 0.107 mH
- Bound inductance \([L_{e}]\): 0.819 mH
- Semi-inductance \([K_{e}]\): 0.0343 SH
- Shunt resistance \([R_{ss}]\): 14093 \(\Omega\)

**Mechanical Data**
- Force Factor \([B_{l}]\): 7.0 Tm
- Moving mass \([M_{ms}]\): 18 g
- Compliance \([C_{ms}]\): 2.05 mm/N
- Mechanical resistance \([R_{ms}]\): 1.26 kg/s
- Admittance \([A_{ms}]\): 0.241 mm/N