MIDWOOFER  18W/4424G00

The Discovery series offer traditional design, superior sound, a solid construction, and a wide range of variants. Combining these elements - plus a wealth of technical features and finesses - it gives our customers the possibility of acquiring a tailor-made Scan-Speak solution with very good performance at a reasonable low price point!

KEY FEATURES:
- High Output 91dB @ 2.83V
- Coated NRSC Fibre Glass Cone
- Die cast Alu Chassis vented below spider
- Excellent Midrange Performance
- Low Damping SBR Rubber Surround

T-S Parameters
- Resonance frequency [fs] 49 Hz
- Mechanical Q factor [Qms] 4.57
- Electrical Q factor [Qes] 0.42
- Total Q factor [Qts] 0.38
- Force factor [Bl] 5.2 Tm
- Mechanical resistance [Rms] 0.77 kg/s
- Moving mass [Mms] 11.4 g
- Suspension compliance [Cms] 0.92 mm/N
- Effective diaph. diameter [D] 132 mm
- Effective piston area [Sd] 137 cm²
- Equivalent volume [Vas] 24.1 l
- Sensitivity (2.83V/1m) 90.9 dB
- Ratio Bl/√Re 2.91 N/√W
- Ratio fs/Qts 128 Hz

Electrical Data
- Nominal impedance [Zn] 4 Ω
- Minimum impedance [Zmin] 4.1 Ω
- Maximum impedance [Zo] 38.0 Ω
- DC resistance [Re] 3.2 Ω
- Voice coil inductance [Le] 0.47 mH

Power Handling
- 100h RMS noise test (IEC 17.1) 50 W
- Long-term max power (IEC 17.3) 110 W

Voice Coil and Magnet Data
- Voice coil diameter 25 mm
- Voice coil height 10.5 mm
- Voice coil layers 2
- Height of gap 5 mm
- Linear excursion ± 2.8 mm
- Max mech. excursion ± 8 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 [Re'] = 3.35 Ω
- Free inductance [Leb] = 0.0240 mH
- Bound inductance [Le] = 0.5124 mH
- Semi-inductance [Ke] = 0.0609 SH
- Shunt resistance [Rss] = 2289 Ω

**Mechanical Data:**
- Force Factor [Bl] = 5.05 Tm
- Moving mass [Mms] = 12.3 g
- Compliance [Cms] = 0.654 mm/N
- Mechanical resistance [Rms] = 0.341 kg/s
- Admittance [Ams] = 0.105 mm/N