MIDWOOFER 18WU/8741T00

The Illuminator midranges and midwoofers are in every aspect unusual designs with the open construction, the extremely long linear excursion and patented under-hung SD-3 (Symmetrical Drive) neodymium motor system, which due to copper caps and its construction ensures very low distortion, adding the unique patented cones, low-loss linear suspension the result is: "The Very Best Money Can Buy"!

KEY FEATURES:
- Under-Hung Neodymium Motor Design
- Patented Sandwich Paper Cone
- Low-Loss linear suspension
- Patented Symmetrical Drive (SD-3)
- Exceptionally Long Linear Excursion
- Patented Design

T-S Parameters
- Resonance frequency [fs] 31 Hz
- Mechanical Q factor [Qms] 3.51
- Electrical Q factor [Qes] 0.37
- Total Q factor [Qts] 0.33
- Force factor [Bl] 7.5 Tm
- Mechanical resistance [Rms] 1.00 kg/s
- Moving mass [Mms] 18 g
- Suspension compliance [Cms] 1.46 mm/N
- Effective piston area [Sd] 154 cm²
- Equivalent volume [Vas] 48.6 l
- Sensitivity (2.83V/1m) 85.4 dB
- Ratio Bl/√Re 3.09 N/√W
- Ratio fs/Qts 93 Hz

Electrical Data
- Nominal impedance [Zn] 8 Ω
- Minimum impedance [Zmin] 7.5 Ω
- Maximum impedance [Zo] 61.9 Ω
- DC resistance [Re] 5.9 Ω
- Voice coil inductance [Le] 0.41 mH

Power Handling
- 100h RMS noise test (IEC 17.1) 80 W
- Long-term max power (IEC 17.3) 150 W

Voice Coil and Magnet Data
- Voice coil diameter 42 mm
- Voice coil height 8 mm
- Voice coil layers 4
- Height of gap 20 mm
- Linear excursion ± 9 mm
- Max mech. excursion ± 16 mm
- Unit weight 1.7 kg

Notes:
IEC specs, refer to IEC 60268-5 third edition. All Scan-Speak products are RoHS compliant. Data are subject to change without notice. Datasheet updated: February 22, 2011.
## MIDWOOFER

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![Graphical representation of the MIDWOOFER 18WU/8741T00](image)

### Advanced Parameters (Preliminary)

#### Electrical data:
- Resistance \([R_e']\): 6.14 \(\Omega\)
- Free inductance \([L_{eb}]\): 0.0790 mH
- Bound inductance \([L_e]\): 2.81 mH
- Semi-inductance \([K_e]\): 0.122 SH
- Shunt resistance \([R_{ss}]\): 6.40 \(\Omega\)

#### Mechanical data:
- Force Factor \([B_l]\): 6.53 Tm
- Moving mass \([M_{ms}]\): 16.4 g
- Compliance \([C_{ms}]\): 1.16 mm/N
- Mechanical resistance \([R_{ms}]\): 0.131 kg/s
- Admittance \([A_{ms}]\): 0.196 mm/N

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