MIDWOOFER 15W/4524T02

The LIMITED EDITION midwoofer, are based on well known designs from our Discovery line, optimized and improved with technology features normally only seen in very exclusive products, allowing you to build outstanding loudspeakers at reasonable pricing.

**KEY FEATURES:**
- Light weight Fiber glass cone and dust cap
- Voice coil with copper wire and titanium bobbin
- Alu shorting ring and copper cap
- Backside coated NRSC cone
- Powerfull magnet system, double ferrite magnets
- Extra long excursion

**T-S Parameters**
- Resonance frequency \( [fs] \) 44 Hz
- Mechanical Q factor \([Qms]\) 4.8
- Electrical Q factor \([Qes]\) 0.32
- Total Q factor \([Qts]\) 0.3
- Force factor \([Bl]\) 5.2 Tm
- Mechanical resistance \([Rms]\) 0.58 kg/s
- Moving mass \([Mms]\) 9.9 g
- Compliance \([Cms]\) 1.3 mm/N
- Effective diaph. diameter \([D]\) 101 mm
- Effective piston area \([Sd]\) 80 cm²
- Equivalent volume \([Vas]\) 11.5 l
- Sensitivity (2.83V/1m) 89.5 dB
- Ratio \(Bl/vRe\) 2.9 N/√W
- Ratio \(fs/Qts\) 147 Hz

**Notes:**
- All Scan-Speak products are RoHS compliant.
- Data are subject to change without notice.
- Datasheet updated: September 14, 2016

**Electrical Data**
- Nominal impedance \([Zn]\) 4 Ω
- Minimum impedance \([Zmin]\) 3.7 Ω
- Maximum impedance \([Zo]\) 45 Ω
- DC resistance \([Re]\) 3.2 Ω
- Voice coil inductance \([Le]\) 0.2 mH

**Power Handling**
- 100h RMS noise test (IEC 17.1) 60 W
- Long-term max power (IEC 17.3) 120 W

**Voice Coil & Magnet Data**
- Voice coil diameter 26 mm
- Voice coil height 14.3 mm
- Voice coil layers 2
- Height of gap 4 mm
- Linear excursion ± 5.2 mm
- Max mech. excursion ± 8 mm
- Unit weight 1.6 kg
**Advanced Parameters (Preliminary)**

<table>
<thead>
<tr>
<th><strong>Electrical data</strong></th>
<th><strong>Mechanical Data</strong></th>
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</thead>
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<tr>
<td>Resistance ([R_e']) (\Omega)</td>
<td>Force Factor ([B_l]) (T_m)</td>
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<tr>
<td>Free inductance ([L_{eb}]) (mH)</td>
<td>Moving mass ([M_{ms}]) (g)</td>
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<tr>
<td>Bound inductance ([L_e]) (mH)</td>
<td>Compliance ([C_{ms}]) (\text{mm/N})</td>
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<tr>
<td>Semi-inductance ([K_e]) (\text{SH})</td>
<td>Mechanical resistance ([R_{ms}]) (\text{kg/s})</td>
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<tr>
<td>Shunt resistance ([R_{ss}]) (\Omega)</td>
<td>Admittance ([A_{ms}]) (\text{mm/N})</td>
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