FULLRANGE  10F/8424G00

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 finesse - 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:
- Very wide Frequency Range
- Coated NRSC Fibre Glass Cone (patent)
- Compact Size, Neo magnet, Alu. Chassis
- High Sensitivity 87dB / 2,83V
- SBR Rubber Surround
- Copper Cap on Pole Piece

### T-S Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resonance frequency [fs]</td>
<td>90 Hz</td>
</tr>
<tr>
<td>Mechanical Q factor [Qms]</td>
<td>3.49</td>
</tr>
<tr>
<td>Electrical Q factor [Qes]</td>
<td>0.41</td>
</tr>
<tr>
<td>Total Q factor [Qts]</td>
<td>0.37</td>
</tr>
<tr>
<td>Force factor [Bl]</td>
<td>4.84 Tm</td>
</tr>
<tr>
<td>Mechanical resistance [Rms]</td>
<td>0.45 kg/s</td>
</tr>
<tr>
<td>Moving mass [Mms]</td>
<td>2.77 g</td>
</tr>
<tr>
<td>Suspension compliance [Cms]</td>
<td>1.13 mm/N</td>
</tr>
<tr>
<td>Effective diaph. diameter [D]</td>
<td>68 mm</td>
</tr>
<tr>
<td>Effective piston area [Sd]</td>
<td>36 cm²</td>
</tr>
<tr>
<td>Equivalent volume [Vas]</td>
<td>2.1 l</td>
</tr>
<tr>
<td>Sensitivity (2.83V/1m)</td>
<td>86.6 dB</td>
</tr>
<tr>
<td>Ratio Bl/vRe</td>
<td>1.99 N/VW</td>
</tr>
<tr>
<td>Ratio fs/Qts</td>
<td>245 Hz</td>
</tr>
</tbody>
</table>

### Electrical Data

- Nominal impedance [Zn] 8 Ω
- Minimum impedance [Zmin] 6.5 Ω
- Maximum impedance [Zo] 55.2 Ω
- DC resistance [Re] 5.8 Ω
- Voice coil inductance [Le] 0.13 mH

### Power Handling

- 100h RMS noise test (IEC 17.1) 15 W
- Long-term max power (IEC 17.3) 30 W

### Voice Coil and Magnet Data

- Voice coil diameter 20 mm
- Voice coil height 9.2 mm
- Voice coil layers 2
- Height of gap 4 mm
- Linear excursion ± 2.6 mm
- Max mech. excursion ± 7 mm
- Unit weight 0.3 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.
Advanced Parameters (Preliminary)

**Electrical data:**
- **Resistance** [Re']: 5.70 Ω
- **Free inductance** [Leb]: 0.0323 mH
- **Bound inductance** [Le]: 0.3464 mH
- **Semi-inductance** [Ke]: 0.0342 SH
- **Shunt resistance** [Rss]: 4.72 Ω

**Mechanical Data**
- **Force Factor** [Bl]: 4.43 Tm
- **Moving mass** [Mms]: 2.93 g
- **Compliance** [Cms]: 1.02 mm/N
- **Mechanical resistance** [Rms]: 0.260 kg/s
- **Admittance** [Ams]: 0.167 mm/N