With the Ellipticor family a long tradition of circular motor structures and their inherent breakup behavior has been broken since one of its key features is an elliptical voice coil and magnet gap. In combination with the powerful SD AirCirc magnet system the 18WE has high sensitivity, very low distortion, and has an extremely fast response to transients. Above all a TRUE TO LIVE sound which makes 18WE/4542T00 one of the very best midwoofers on the market!

**KEY FEATURES:**
- Elliptic voice coil
- Very low mechanical losses
- High sensitivity (SPL)
- AirCirc optimized magnetsystem
- Unusually low distortion
- Flexible appearance with replaceable decor ring

**T-S Parameters**
- Resonance frequency [fs] 46 Hz
- Mechanical Q factor [Qms] 5.62
- Electrical Q factor [Qes] 0.26
- Total Q factor [Qts] 0.25
- Force factor [Bl] 8.1 Tm
- Mechanical resistance [Rms] 0.9 kg/s
- Moving mass [Mms] 17.5 g
- Compliance [Cms] 0.68 mm/N
- Effective diaph. diameter [D] 130 mm
- Effective piston area [Sd] 133 cm²
- Equivalent volume [Vas] 17.2 l
- Sensitivity (2.83V/1m) 92.5 dB
- Ratio Bl/√Re 4.39 N/√W
- Ratio fs/Qts 184 Hz

**Electrical Data**
- Nominal impedance [Zn] 4 Ω
- Minimum impedance [Zmin] 4.1 Ω
- Maximum impedance [Zo] 76 Ω
- DC resistance [Re] 3.4 Ω
- Voice coil inductance [Le] 0.1 mH

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

**Voice Coil & Magnet Data**
- Voice coil diameter 35/45 mm
- Voice coil height 19.5 mm
- Voice coil layers 2
- Height of gap 5 mm
- Linear excursion ± 7.2 mm
- Max mech. excursion ± 12 mm
- Unit weight 1.7 kg

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

Electrical data

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<tr>
<td>Resistance [Re']</td>
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<td>Free inductance [Leb]</td>
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<tr>
<td>Bound inductance [Le]</td>
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<td>Semi-inductance [Ke]</td>
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<td>Shunt resistance [Rss]</td>
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Mechanical data

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<tr>
<td>Moving mass [Mms]</td>
<td>g</td>
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<tr>
<td>Compliance [Cms]</td>
<td>mm/N</td>
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<tr>
<td>Mechanical resistance [Rms]</td>
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<td>Admittance [Ams]</td>
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