The Illuminator tweeters stand for superb vocal rendition and excellent imaging at all listening locations. Its large roll surround and textile dome diaphragm provides a flat frequency response to above 30kHz with outstanding off-axis dispersion. The unique AirCirc Magnet System, and its rear chamber, results in elimination of reflections and resonances that compromise the performance of traditional motors.

**KEY FEATURES:**
- 1" Textile Dome Diaphragm
- Patented Symmetrical Drive (SD-2) motor
- Die Cast Rubber Painted Alu Face Plate
- Large Roll Surround f. Wide Dispersion
- AirCirc Motor Design w. 6 Neo magnets

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**T-S Parameters**
- Resonance frequency \([fs]\) 470 Hz
- Mechanical Q factor \([Qms]\) 3.00
- Electrical Q factor \([Qes]\) 0.59
- Total Q factor \([Qts]\) 0.49
- Force factor \([Bl]\) 2.3 Tm
- Mechanical resistance \([Rms]\) 0.3 kg/s
- Moving mass \([Mms]\) 0.35 g
- Suspension compliance \([Cms]\) 0.33 mm/N
- Effective diaph. diameter \([D]\) 30 mm
- Effective piston area \([Sd]\) 7 cm²
- Equivalent volume \([Vas]\) 0.02 l
- Sensitivity \((2.83V/1m)\) 91.5 dB
- Ratio \(Bl/v/Re\) 1.33 N/V/W
- Ratio \(fs/Qts\) 959 Hz

**Notes:**
All Scan-Speak products are RoHS compliant.
Data are subject to change without notice.

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**Electrical Data**
- Nominal impedance \([Zn]\) 4 Ω
- Minimum impedance \([Zmin]\) 3.5 Ω
- Maximum impedance \([Zo]\) 18.4 Ω
- DC resistance \([Re]\) 3 Ω
- Voice coil inductance \([Le]\) 0.03 mH

**Power Handling**
- 100h RMS noise test (IEC 17.1)* 90 W
- Long-term max power (IEC 17.3)* 150 W
*Filter: 2. order HP Butterworth, 2.5 kHz

**Voice Coil and Magnet Data**
- Voice coil diameter 26 mm
- Voice coil height 2.1 mm
- Voice coil layers 2
- Height of gap 2.5 mm
- Linear excursion ± 0.2 mm
- Max mech. excursion ± 1.6 mm
- Unit weight 0.3 kg
Advanced Parameters (Preliminary)

Electrical data:

- Resistance [Re']: \( \Omega \)
- Free inductance [Leb]: \( \text{mH} \)
- Bound inductance [Le]: \( \text{mH} \)
- Semi-inductance [Ke]: \( \text{SH} \)
- Shunt resistance [Rss]: \( \Omega \)

Mechanical Data:

- Force Factor [Bl]: \( \text{Tm} \)
- Moving mass [Mms]: \( \text{g} \)
- Compliance [Cms]: \( \text{mm/N} \)
- Mechanical resistance [Rms]: \( \text{kg/s} \)
- Admittance [Ams]: \( \text{mm/N} \)