<table>
<thead>
<tr>
<th></th>
<th>MODEL:</th>
<th>S150RMSS-R3W</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Dimension &amp; Weight</td>
<td>Outer Diameter: $\Phi$ 38 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Baffle Opening: $\Phi$ 36 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Height: Refer to drawing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Weight: 6 Grams</td>
</tr>
<tr>
<td>3</td>
<td>Magnet</td>
<td>Materials: Rare Earth</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Size: $\Phi12.5 \times 1.5$ mm</td>
</tr>
<tr>
<td>4</td>
<td>DC Resistance</td>
<td>$8 \ \Omega \pm 15%$, On Ohm Meter</td>
</tr>
<tr>
<td>5</td>
<td>Power Rating</td>
<td>Normal: 0.3 Watts, Maxim: 0.6 Watts Sine Wave.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Watts Square Wave.</td>
</tr>
<tr>
<td>6</td>
<td>Resonant Frequency</td>
<td>380 $\pm$ 20% Hz.</td>
</tr>
<tr>
<td>7</td>
<td>Output Sound Pressure Level (S.P.L.)</td>
<td>80 $\pm$ 3 db/0.3 Watt, 0.5 Meter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Average at: 600, 800, 1000, 1200 Hz.</td>
</tr>
<tr>
<td>8</td>
<td>Frequency Range</td>
<td>200 $\sim$ 20000 Hz, Average SPL $\pm$ 10 db.</td>
</tr>
<tr>
<td>9</td>
<td>Distortion</td>
<td>5% Maximum At 1000 Hz, 0.3 W.</td>
</tr>
<tr>
<td>10</td>
<td>Abnormal Sound test</td>
<td>Must be Normal Tested By 1.55 Volts Sine Wave.</td>
</tr>
<tr>
<td>11</td>
<td>Load Test</td>
<td>Pink noise with HPF (High Pass Filter 235HZ-3db-11db/Oct) 8.94 Volts(RMS), 96 hours</td>
</tr>
<tr>
<td>12</td>
<td>Polarity</td>
<td>Diaphragm shall move Forward while Apply a Positive DC Signal to the “+” or “Marked” Terminal.</td>
</tr>
</tbody>
</table>


**Mechanical and vibration test**

<table>
<thead>
<tr>
<th></th>
<th>High Temperature</th>
<th>$\pm 60 \pm 2^\circ\text{C}$, Humidity Random for 96 Hours. (GB2423.2-81)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>Low Temperature</td>
<td>$-25 \pm 2^\circ\text{C}$, Humidity Random for 96 Hours. (GB2423.1-81)</td>
</tr>
<tr>
<td>15</td>
<td>Humidity</td>
<td>$\pm 40 \pm 2^\circ\text{C}$, Relative Humidity (RH) 90 ~ 95% 96 Hours.</td>
</tr>
<tr>
<td>16</td>
<td>Vibration</td>
<td>Frequency $30 \pm 15$ Hz, Amplitude 1.5 mm for 3 Hours. (GB11606.8-89)</td>
</tr>
<tr>
<td>17</td>
<td>Drop test</td>
<td>75 CM free falling on Concrete floor, 10 times. (GB2423. 8-81)</td>
</tr>
</tbody>
</table>

After test leave speakers at room temperature for 1 hour, SPL shall not deviate by $\pm$ 3 db from pre-test.

|   | Temperature Cycle test | $-25 \sim +60^\circ\text{C}$, 4 Cycles Temperature tests. (GB5170.18-87) |

After test leave speakers at room temperature for 1 hour, SPL shall not deviate by $\pm$ 3 db from pre-test.

Measurement, and meet above spec. item 6, 7, 8, 9, 10.

**G50** Please refer to next pages for more detailed testing method.
Test method and User precaution.

1. Characteristics measured according to standard GB/T 9396-1996
   1.1 Except other specified, measuring are under Temperature 15~35°C  R.H. 25~75%
   1.2 Judgement condition Temperature 20 ±2 R.H. 63~67%
   1.3 Product shelf life is valid for 12 months only.

2. Output Sound Pressure Level (S.P.L.) and distortion testing setup

3. Environment & Mechanical test:

   3.1 High Temperature: GB2423.2-81
       After exposure the speaker in the + 60 ± 2 °C chamber for 96 hours, then leave the
       speaker at room temperature for 1 hour, the SPL should not deviate by ± 3 db, and
       resonant frequency should not deviate by ± 50 Hz, compare with pre-test measurement.

   3.2 Low Temperature: GB2423.1-81
       After exposure the speaker in the −25 ± 2 °C chamber for 96 hours, then leave the
       speaker at room temperature for 1 hour, the SPL should not deviate by ± 3 db, and
       resonant frequency should not deviate by ± 50 Hz, compare with pre-test measurement.

   3.3 Temperature cycle: GB5170.18-87
       After exposure the speaker in the chamber, temperature cycle setting as below shows,
       SPL should not deviate by ± 3 db, and resonant frequency should not deviate by ± 80 Hz,
       compare with pre-test measurement.
3.4 Humidity: GB5170.18-87
After exposure the speaker in the +40±2 °C, relative humidity 90% ~ 95% chamber for 96 hours, then leave the speaker at room temperature for 6 hours, the SPL should not deviate by ±3 db, and resonant frequency should not deviate by ±50 Hz, compare with pre-test measurement.

3.5 Vibration: GB11606.8-89
Frequency 30±15 Hz, Amplitude 1.5 mm for 3 Hours. After test, SPL shall not deviate by ±3 db from pre-test measurement,

3.6 Load test: GB/T 9396-1996
Speaker should not fail after apply 20 ~ 20K Hz Pink noise with HPF rated power input (RMS), 96 hours. After test, SPL shall not deviate by ±3 db from pre-test measurement,

3.7 Drop test: GB2423. 8-81
75 cm free falling on concrete floor, 10 times. After test, SPL shall not deviate by ±3 db from pre-test measurement,

4. Mounting precaution
In order to keep speaker work normally, there shall leave enough free space for diaphragm moving, minimum distance required is marked in speaker mechanical drawing.

5. Measuring & standard referenced
5.1 Rated sine voltage.

It is stipulated by manufacturer, sine signal voltage that make speaker work continuously in rated frequency range, but the speaker wouldn’t be damaged heartily or mechanically. The persist time of the voltage is 1 hour.

5.2 The rated sine power.

The rated sine power is corresponding with the rated sine voltage, its definition is $U_s^2/R$.

Us indicates the rated sin voltage, R indicates the rated impedance.

5.3 The rated noise power.

The rated noise power is corresponding with the rated noise voltage, its definition is $U_n^2/R$.

Un indicates the rated noise voltage, R indicates the rated impedance.
S150RMSS-R3W VOL: 1.55V(0.3W) DIS: 0.5M

Magn dB re 20.0 uPa.

Current Curve: X: 1000 Hz Y: 79.56 dB
MOUNTING NOTICE

AT LEAST 1.2
FOR DIAPHRAGM MOVING

\( \phi 36 \) Baffle Opening

\( \phi 36 \pm 0.2 \) \( \phi 38 \pm 0.2 \) \( 3.9 \) \( 4.2 \pm 0.3 \) \( 2.5 \)

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S150RMSS-R3W

VERSION DATE DESCRIPTION
V1.0 06.10.10

Unit: mm Scale: Appr.: Check:
Tol. ±1/2 IT13 CHK: Dwg.