



Data Sheet

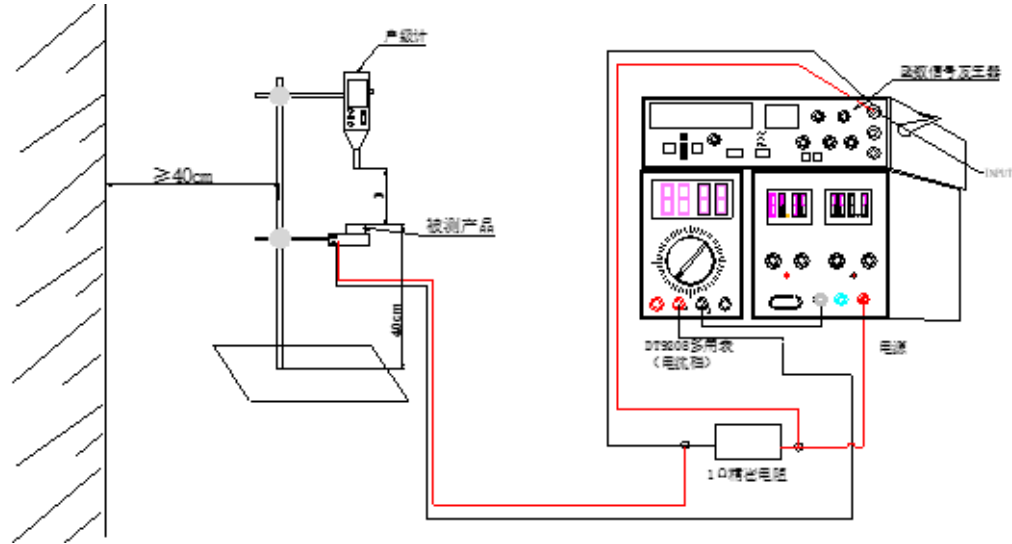
SMI-1324-TW-5V-2-R

- Features:
- 5Vdc Electro-Mechanical SMD Indicator
 - 2400Hz Resonant Frequency
 - Reflow and Wash Allowed

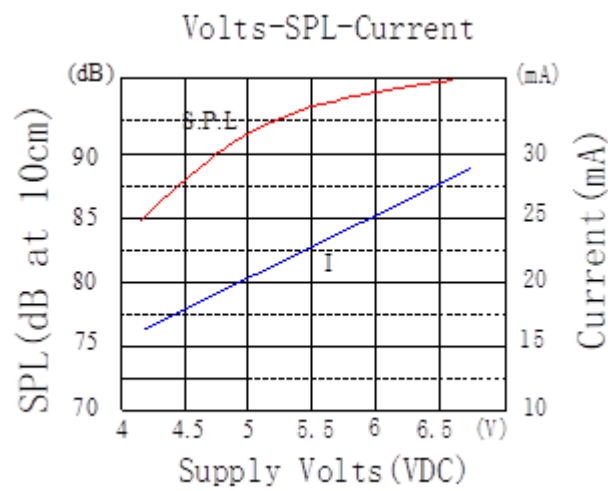
Specifications

| Parameters | Values | Units |
|----------------------------------|----------------------------|-------------------------------------|
| Rated Voltage | 5 | VDC |
| Operating Voltage Range | 4 - 7 | VDC |
| Current Draw at Rated Voltage | 30 | mA |
| Minimum SPL @ 10cm | 88 | dBA |
| Resonant Frequency | 2400 ± 400 | Hz |
| Tone or Pulse Rate | Continuous Tone | - |
| Housing Material | PPS | - |
| Terminal Material | Sn plated Brass | - |
| Weight | 2 | Grams |
| Acceptable Soldering Methods | Hand Solder, Reflow Solder | See pages for soldering information |
| Environmental Compliances | ROHS/REACH | - |
| Moisture Sensitivity Level (MSL) | - | - |
| Storage Temperature | -40 to 85 | °C |
| Operating Temperature | -40 to 85 | °C |

Measurement Method (3Vdc, 10cm)



Typical SPL vs Voltage Curve

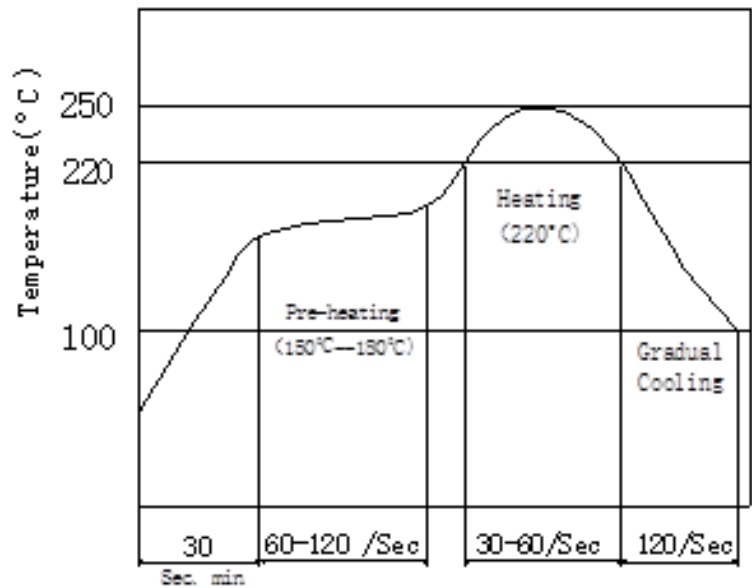


Reliability Testing

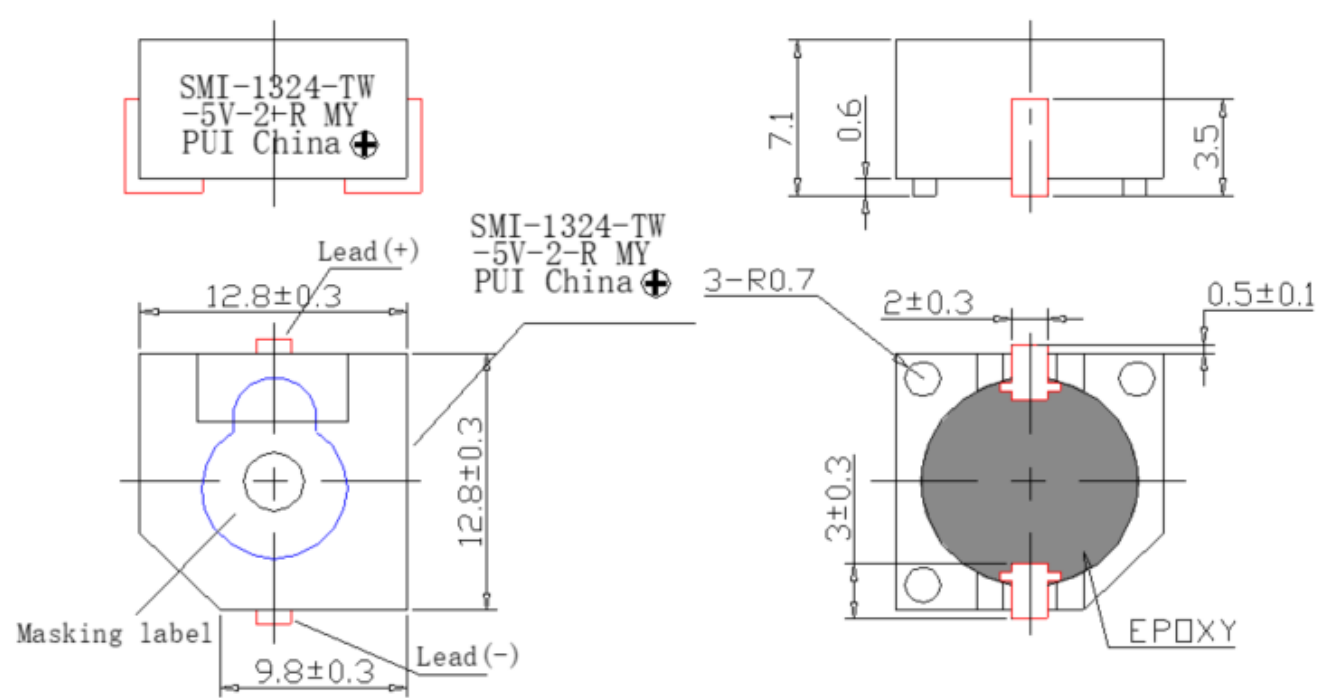
| Type of Test | Test Specifications |
|-------------------------------|---|
| Storage High Temperature Test | Storage in +85°C ± 2°C test box for 96 hours, then expose to the room temperature for 2 hours without applying power. |
| Storage Low Temperature Test | Storage in -40°C ± 2°C test box for 96 hours, then expose to the room temperature for 2 hours without applying power |
| Humidity Test | Storage in +40°C ± 2°C 90-95%RH test box for 96 hours, then expose to the room temperature for 2 hours without applying power. |
| Temperature Cycle Testing | <div><p>Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.</p></div> |
| Vibration Test | <div><p>Amplitude: 1.5mm Time : 1min/axis</p><p>Make this test for the directions of X,Y, Z for 2 hours each (total 6 hours).</p></div> |
| Drop Test | Free drop a unit from the height 100cm to the surface of 10mm thick board ,three directions(X,Y,Z). |
| Solderability Test | Soldering temp.: 260 ± 5°C Heat applying time: 3 ± 0.5sec. |

After tests, SPL shall be within ± 5dB

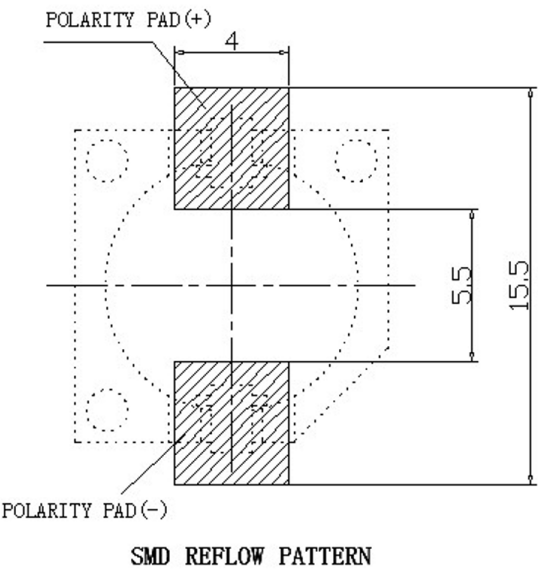
Recommended Reflow Profile



Dimensions

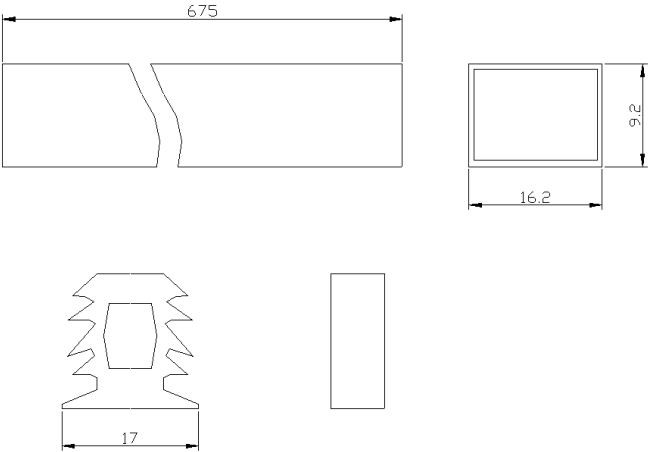


Recommended Land Pattern

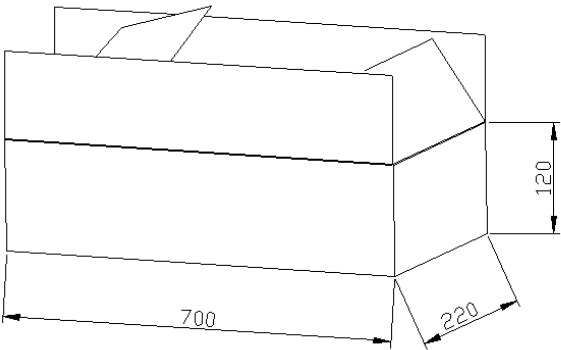


Packaging

50pcs per stick tube



5k pcs master carton



Specifications Revisions

| Revision | Description | Date | Approved |
|----------|--|------------|----------|
| - | Released from Engineering | 08/02/2004 | - |
| A | Revised Terminal Material | 12/13/2004 | RW |
| B | Removed Lead Free Added RoHS note | 08/10/2005 | - |
| C | Added Note 4 | 11/02/2005 | BR |
| D | Revised Terminal Material | 03/20/2006 | BR |
| E | Revised Temperatures Add Date Code | 06/14/2006 | RW |
| F | Revised Layout Added Side Dimensions | 08/16/2006 | BR |
| G | Revised to Inventor 3D Template | 11/09/2007 | BR |
| H | Update Spec Format, Add Details for Reliability, Packaging, etc. | 08/07/2024 | ML |

Note:

- Unless otherwise specified:
 - All dimensions are in millimeters.
 - Default tolerances are $\pm 0.5\text{mm}$ and angles are $\pm 3^\circ$.
- Specifications subject to change or withdrawal without notice.
- This part is RoHS compliant.
- Max Reflow temp is 260C.