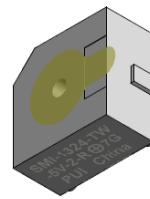




PUIaudio



Data Sheet

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

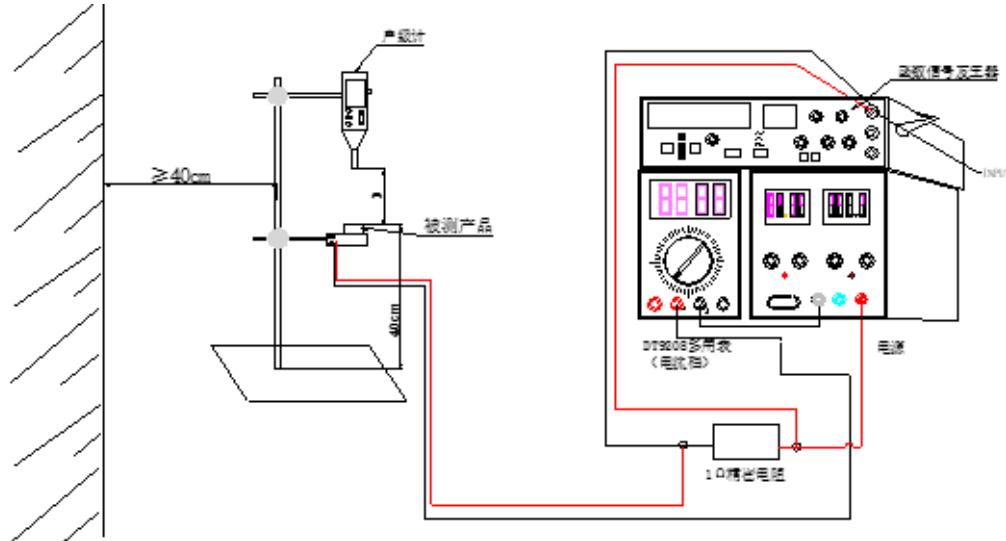
Features:

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

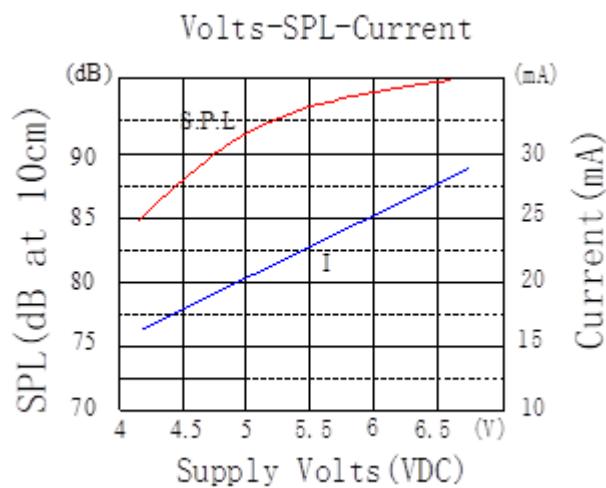
Specifications

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

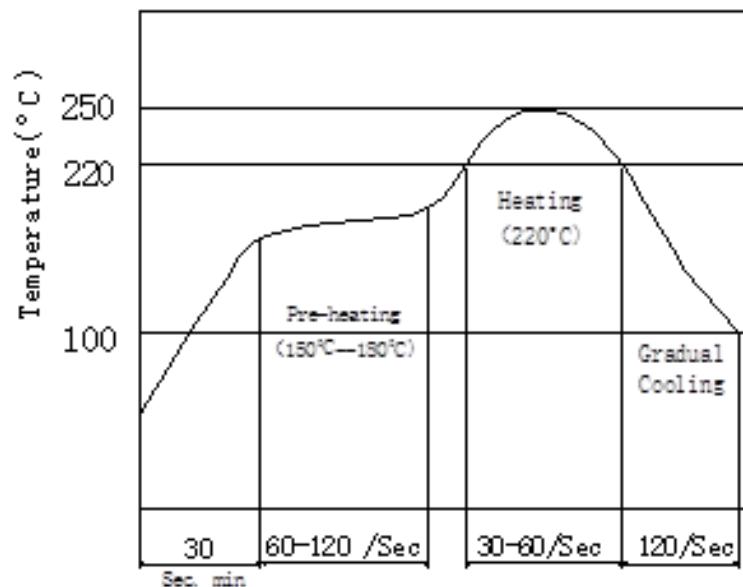


Reliability Testing

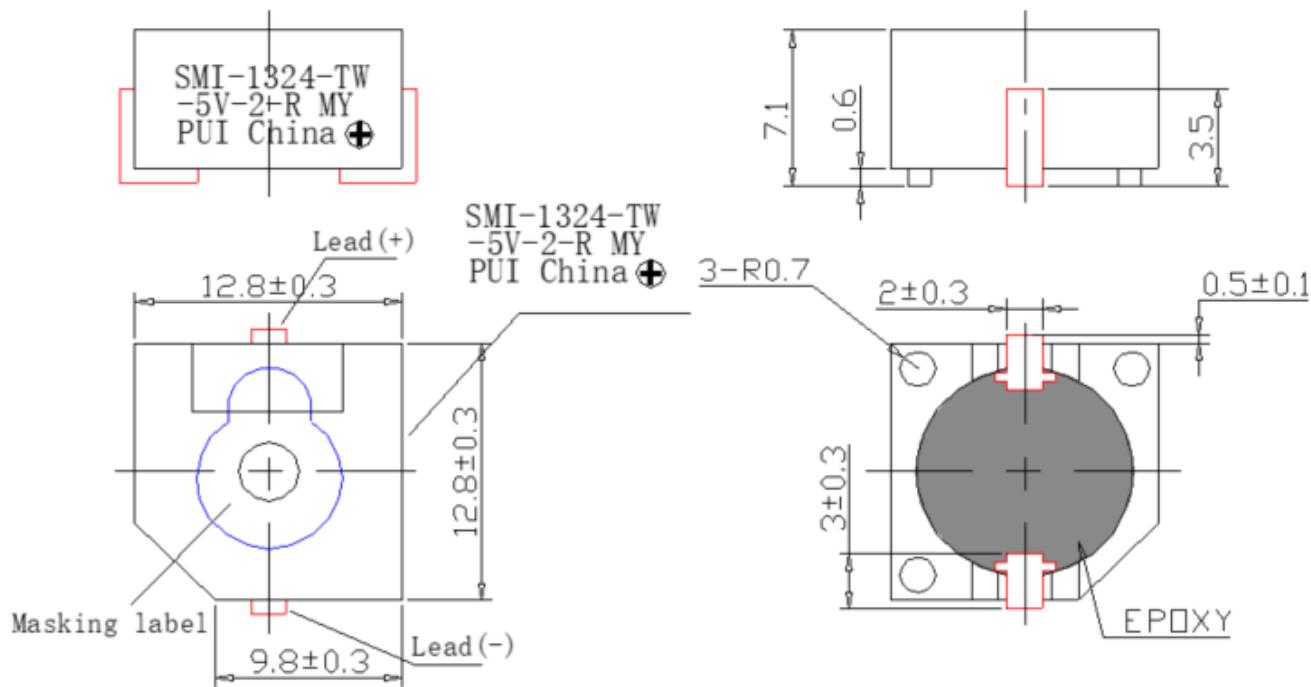
Type of Test	Test Specifications
Storage High Temperature Test	Storage in $+85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
Storage Low Temperature Test	Storage in $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ test box for 96 hours, then expose to the room temperature for 2 hours without applying power
Humidity Test	Storage in $+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 90-95%RH test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
Temperature Cycle Testing	<p>+85°C -40°C +20°C +20°C 30min 15min 30min 15min</p> <p>Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.</p>
Vibration Test	<p>Amplitude: 1.5mm Time : 1min/axis 9.3g 0.3g 10 55 Hz</p> <p>Make this test for the directions of X,Y, Z for 2 hours each (total 6 hours).</p>
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.: $260 \pm 5^{\circ}\text{C}$ Heat applying time: $3 \pm 0.5\text{sec}$.

After tests, SPL shall be within $\pm 5\text{dB}$

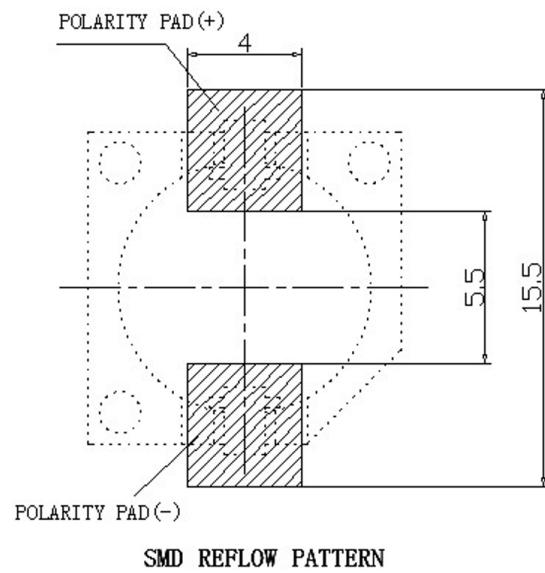
Recommended Reflow Profile



Dimensions

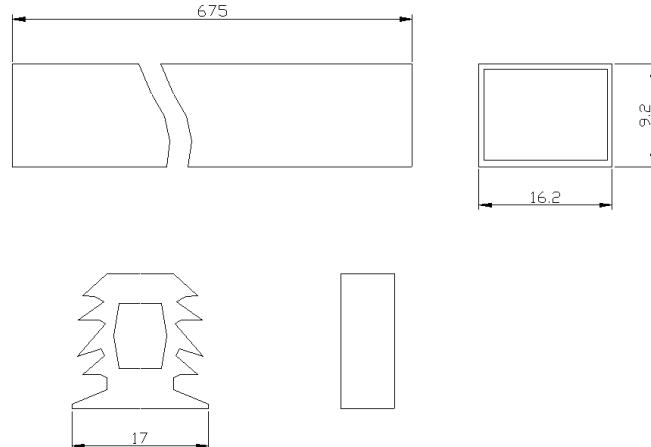


Recommended Land Pattern

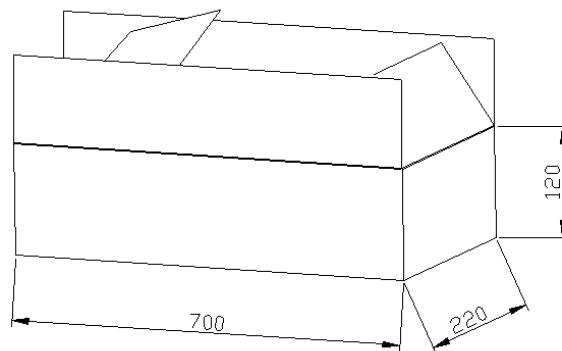


Packaging

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:

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