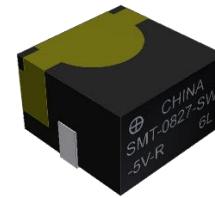




# PUIaudio



Data Sheet

SMT-0827-SW-5V-R

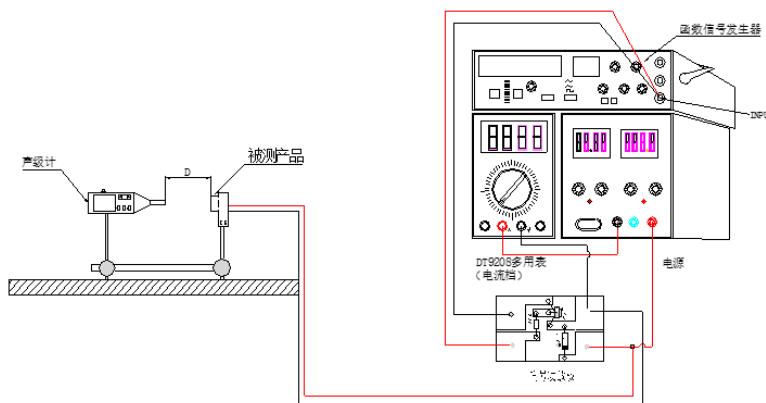
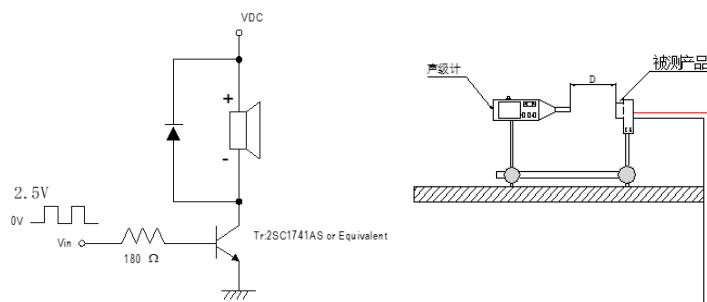
## Features:

- **5Vpk, 2731Hz Magnetic Buzzer**
- **Reflow and Washing Allowed**

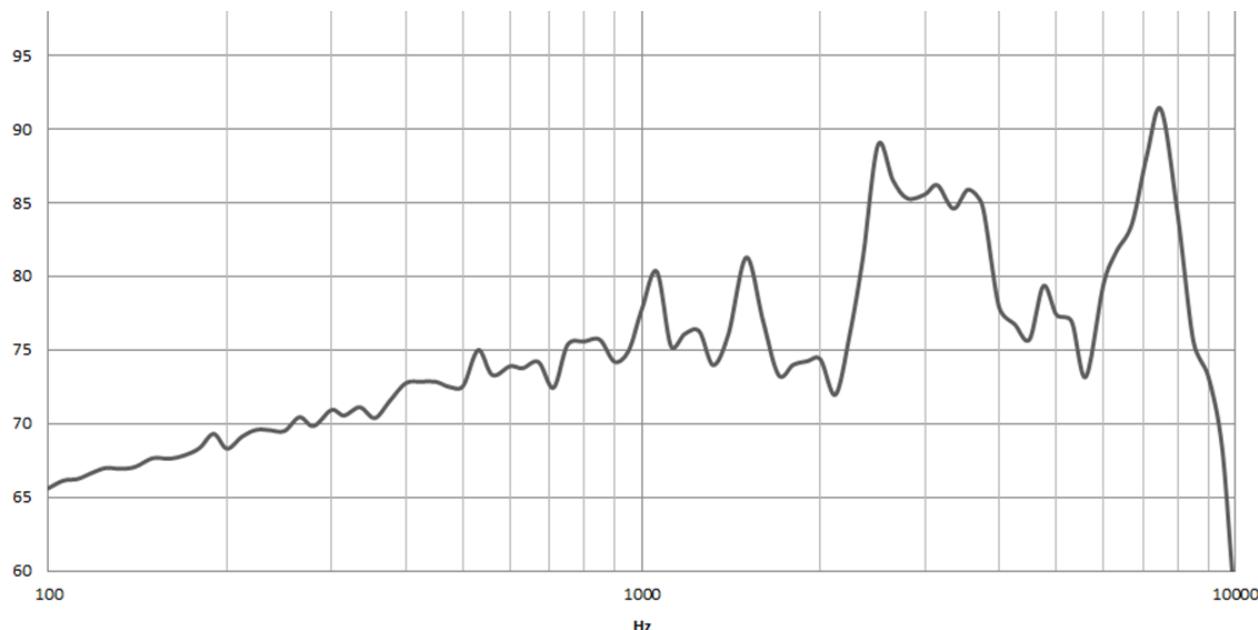
## Specifications

Parameters	Values	Units
Rated Voltage	5	V0-pk
Operating Voltage Range	4 ~ 6	V0-pk
Current Draw at Rated Voltage	80 (Max.)	mA
Coil Resistance	30 ± 5	Ohms
Minimum SPL @ 10cm	85	dBA
Resonant Frequency	2731 ± 500	Hz
Housing Material	LCP	-
Terminal Material	Sn Plated Brass	-
Weight	0.6	Grams
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See following pages
Environmental Compliances	ROHS/REACH	-
Moisture Sensitivity Level	2A	-
Storage Temperature	-50 ~ 95	°C
Operating Temperature	-40 ~ 85	°C

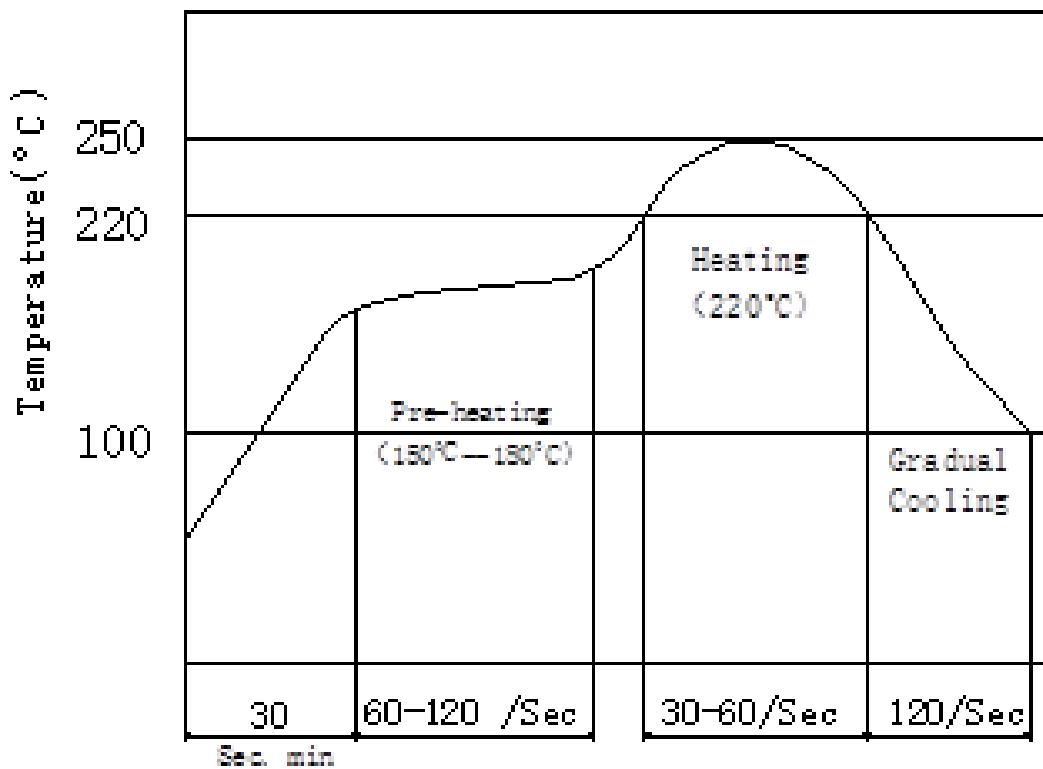
## Measurement Method (2731Hz 1/2 duty square wave, 5Vpk, 10cm)



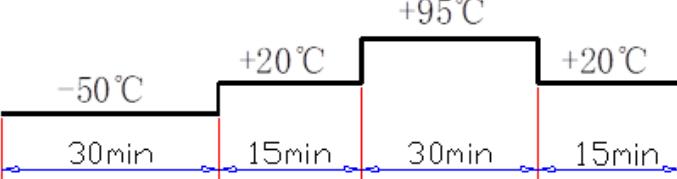
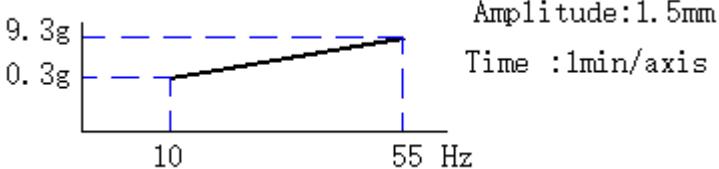
## Typical Frequency Response (5Vpk, 10cm)



## Recommended Reflow Profile

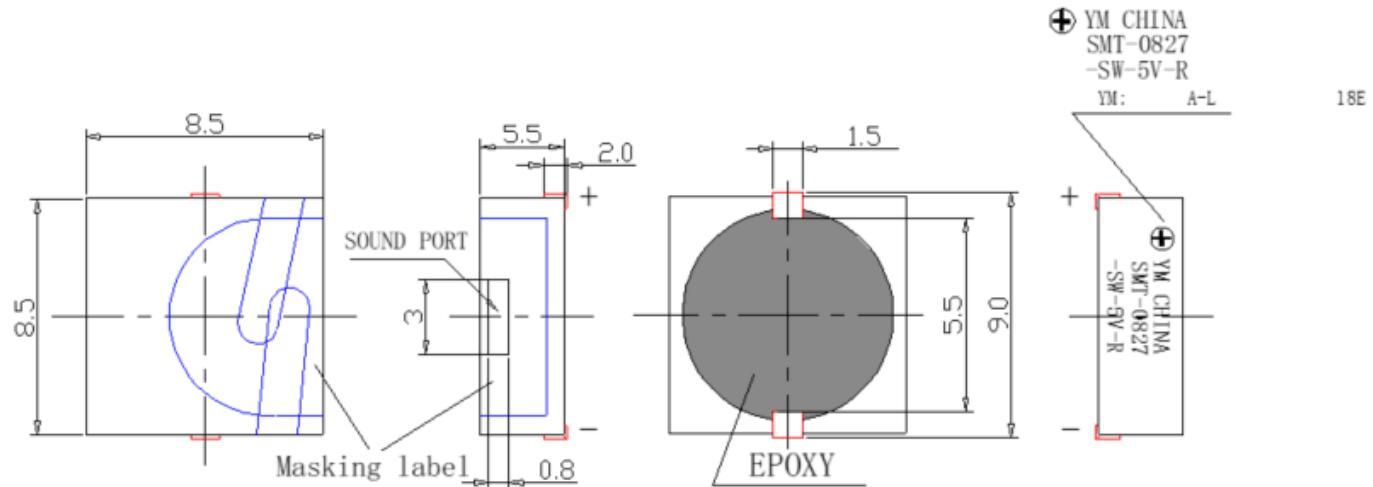


## Reliability Testing

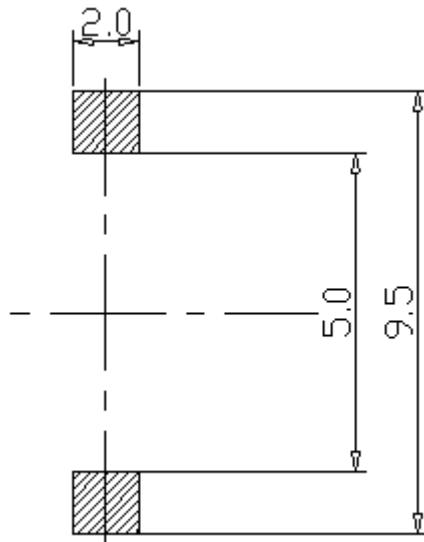
Type of Test	Test Specifications
High Temperature Test	96 hours at 95°C, Rest at room temperature for 2 hours.
Low Temperature Test	96 hours at -50°C, Rest at room temperature for 2 hours.
Humidity Test	96 hours at 40°C with relative humidity at 90-95%. Rest at room temperature for 2 hours.
Temperature Cycle Testing	 <p>Complete this cycle 5 times without power. Rest at room temperature for 2 hours.</p>
Vibration Test	 <p>Amplitude: 1.5mm Time : 1min/axis</p> <p>Complete this test for XYZ directions for 2hrs each. (Total 6hrs)</p>
Drop Test	Free drop from height of 100cm onto 10mm thick wooden board in each XYZ direction.

After Tests, part SPL shall be within  $\pm 5$ dB.

## Dimensions

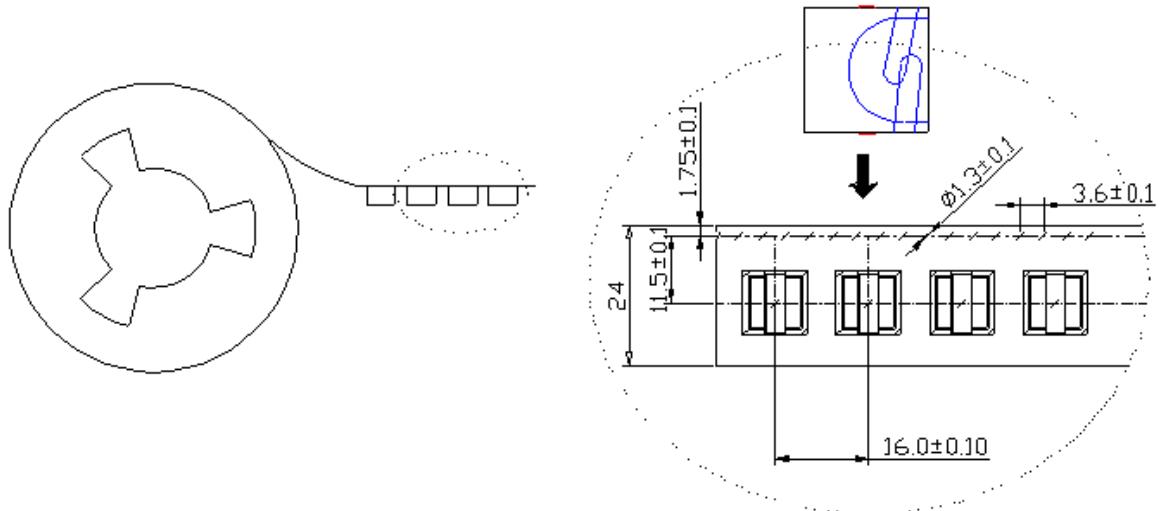


## Suggested Land Pattern\*



\*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

## Packaging 600pcs/Reel



**Specifications Revisions**

<b>Revision</b>	<b>Description</b>	<b>Date</b>	<b>Approved</b>
-	Released from Engineering	03/29/2007	-
A	Revised to Inventor 3-D drawing template	11/05/2007	BR
B	Revised Voltage Units	02/28/2020	MV
E	Updated Spec Format, Add details for Reliability, Packaging, etc. Add MSL 2A	03/03/2025	ML

Note:

1. Unless otherwise specified:
  - A. All dimensions are in millimeters.
  - B. Default tolerances are  $\pm 0.5$ mm and angles are  $\pm 3^\circ$ .
2. Specifications subject to change or withdrawal without notice.