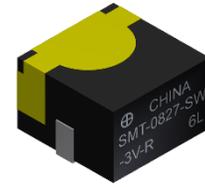




# PUI audio



Data Sheet

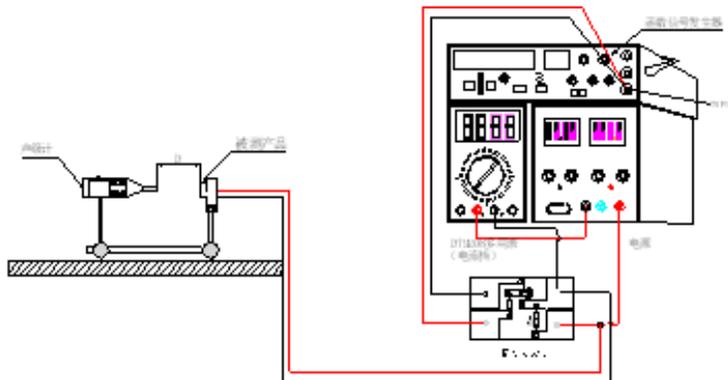
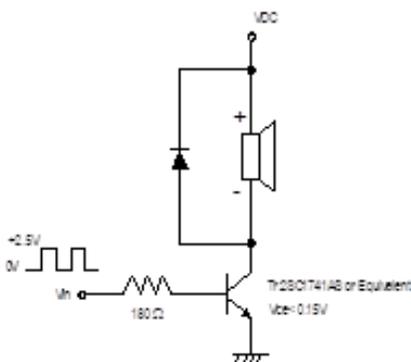
SMT-0827-SW-3V-R

- 3.6Vpk, 2730Hz, 8.5mm side-fire magnetic transducer
- Reflow and Washing Allowed

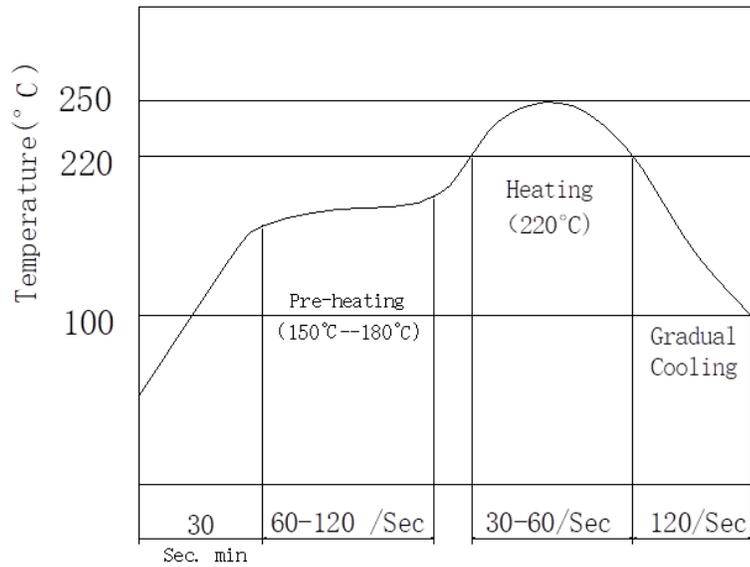
## Specifications

Parameters	Values	Units
Rated Voltage	3.6	V0-pk
Operating Voltage Range	2.5 ~ 4.5	V0-pk
Current Draw at Rated Voltage	60 (Max)	mA
Coil Resistance	15 ± 3	Ohms
Minimum SPL @ 10cm	80	dBA
Resonant Frequency	2730 ± 500	Hz
Housing Material	LCP	-
Terminal Material	Sn Plated Brass	-
Weight	0.6	Grams
Moisture Sensitivity Level	2A	-
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See page 2 for soldering information
Environmental Compliances	ROHS/REACH	-
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-40 ~ +85	°C

## Measurement Method (Square Wave 3.6Vpk, 2.73kHz @ 10cm)



## Recommended Soldering Procedure



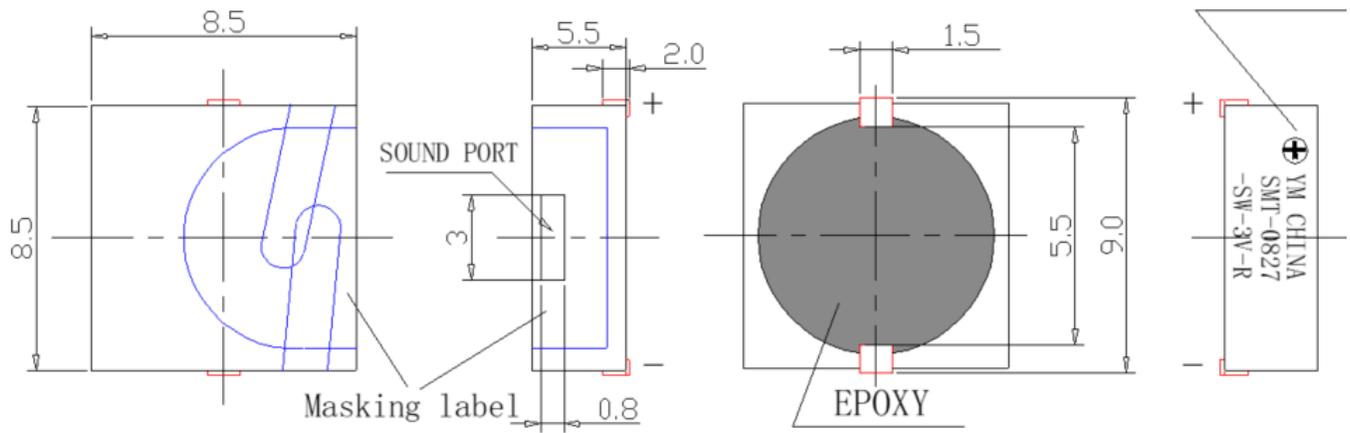
## Reliability Testing

Type of Test	Test Specifications
High Temperature Test	96 hours at 85°C, then expose to room temperature for 2 hours.
Low Temperature Test	96 hours at -40°C, then expose to room temperature for 2 hours.
Humidity Test	96 hours at 40°C with relative humidity at 90-95%, then expose to room temperature for 2 hours.
Temperature Cycle Testing	<p>Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.</p>
Vibration Test	<p>Make this test for the directions of X, Y, Z for 2 hours each (total 6 hours).</p>
Drop Test	Height 100cm to the surface of 10mm thick board in three directions (X, Y, Z).

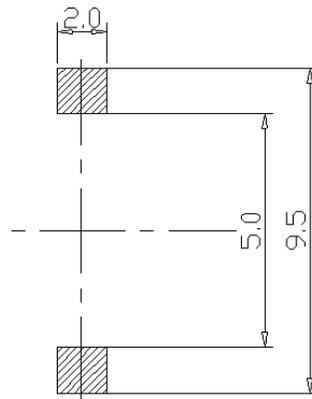
After these tests, the change of SPL should be within  $\pm 5$  dB.

## Dimensions

⊕ YM CHINA  
SMT-0827  
-SW-3V-R

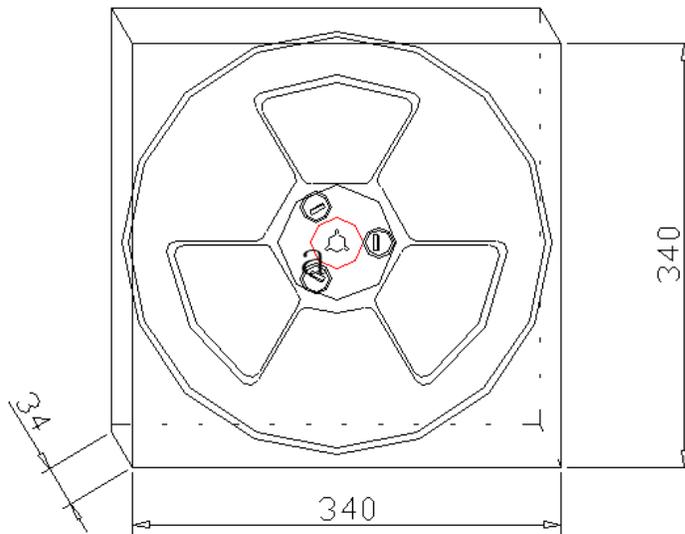
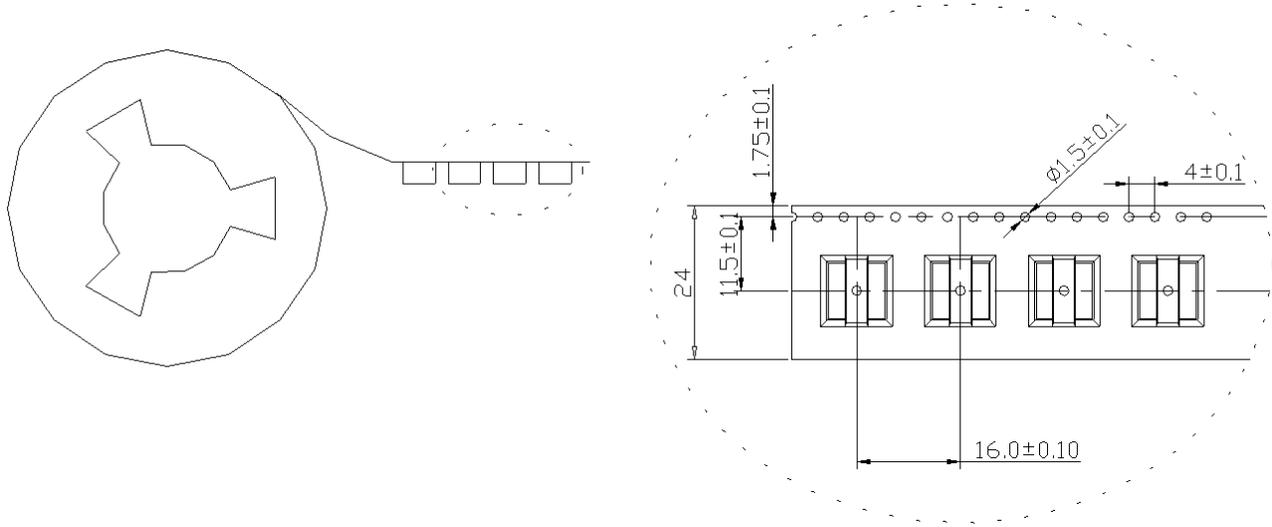


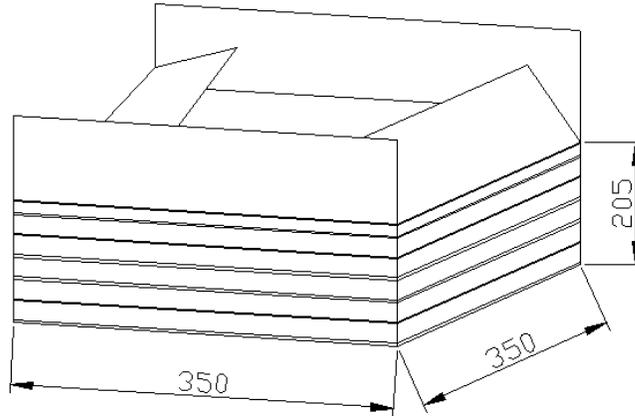
## Suggested Land Pattern\* (for surface mount parts)



\*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**

Revision	Description	Date	Approved
-	Released from Engineering	03/29/2007	
A	Revised to inventor 3-D drawing template	11/05/2007	BR
B	Correct resonant frequency	06/12/2015	ML
C	Updated spec format, Add details for Reliability, Packaging, etc. Add MSL 2A	05/22/2025	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.