



# PUI audio



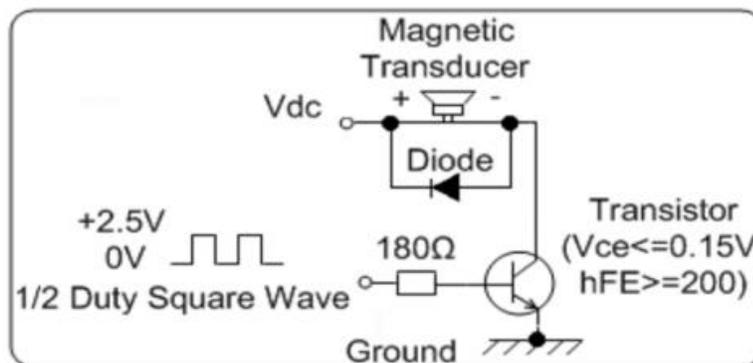
Data Sheet

SMT-0827-S-9-R

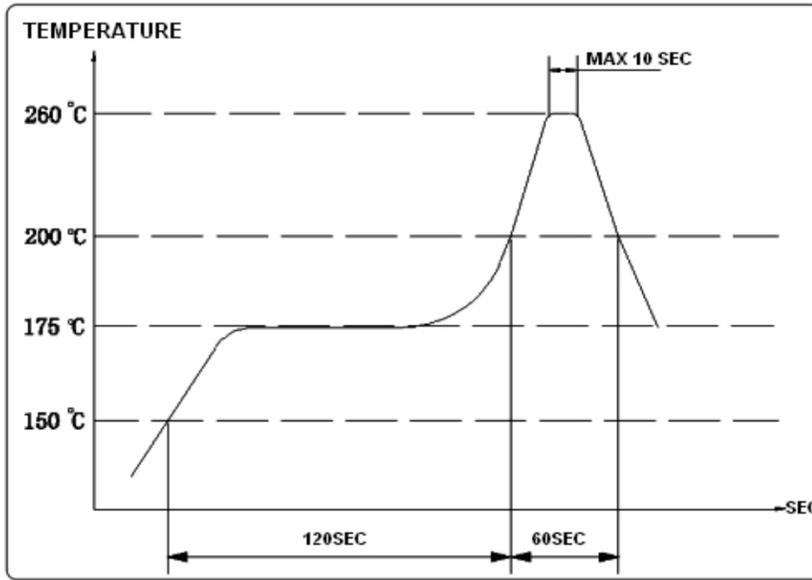
## Specifications

Parameters	Values	Units
Rated Voltage	3.6	V0-pk
Operating Voltage Range	2.5 – 4.5	V0-pk
Current Draw at Rated Voltage	100(Max.)	mA
Coil Resistance	15 ± 3	Ohms
Minimum SPL @ 10cm	85	dBA
Resonant Frequency	2700 ± 500	Hz
Housing Material	LCP	-
Terminal Material	Sn Plated Brass	-
Weight	0.8	Grams
Moisture Sensitivity Level (MSL)	2A	-
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See following pages
Environmental Compliances	ROHS/REACH	-
Storage Temperature	-40 to +85	°C
Operating Temperature	-40 to +85	°C

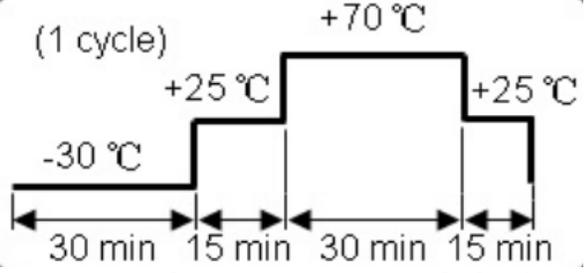
## Measurement Method (Square Wave 3.6Vpk, 2.7kHz @ 10cm)



## Recommended Reflow Profile

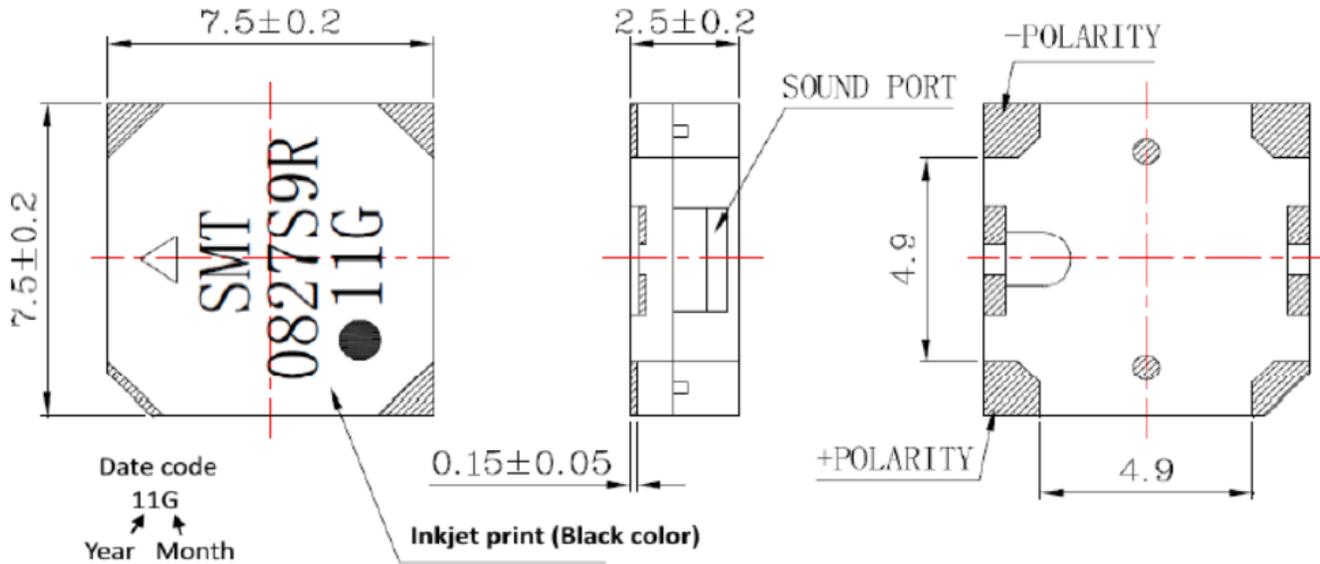


## Reliability Testing

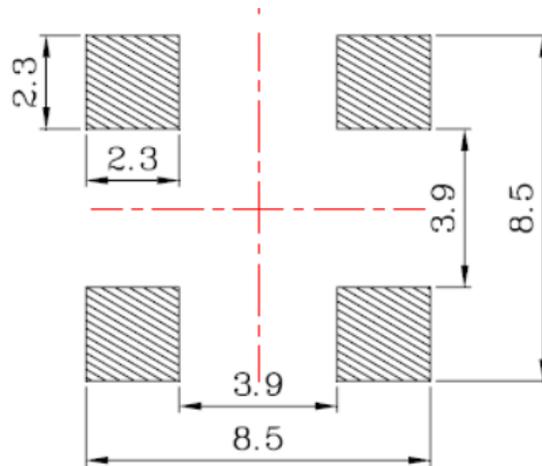
Type of Test	Test Specifications
High Temperature Test	96 hours at 80°C, then room temperature for 2 hours.
Low Temperature Test	96 hours at -40°C, then room temperature for 2 hours.
Humidity Test	5 hours at 25°C with relative humidity at 90-95%, 0.5 hours at 55°C with relative humidity at 90-95%, 5 hours at 55°C with relative humidity at 90-95%, 0.5 hours at 25°C with relative humidity at 90-95%, 10 cycles.
Temperature Cycle Testing	 <p>Exposure to above temperature cycle for 5 times and room temperature for 2 hours.</p>
Vibration Test	At 10-50 Hz, with amplitude of 1.5mm, for 2 hours in each perpendicular direction (3).
Drop Test	Height of 700mm onto surface of 10mm wooden board in 3 directions.

After tests, part shall meet performance values as stated.

## Dimensions

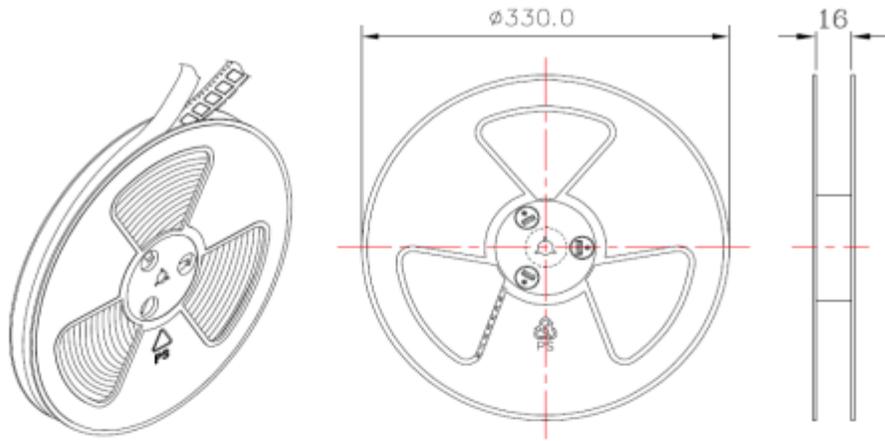


## Suggested Land Pattern\*

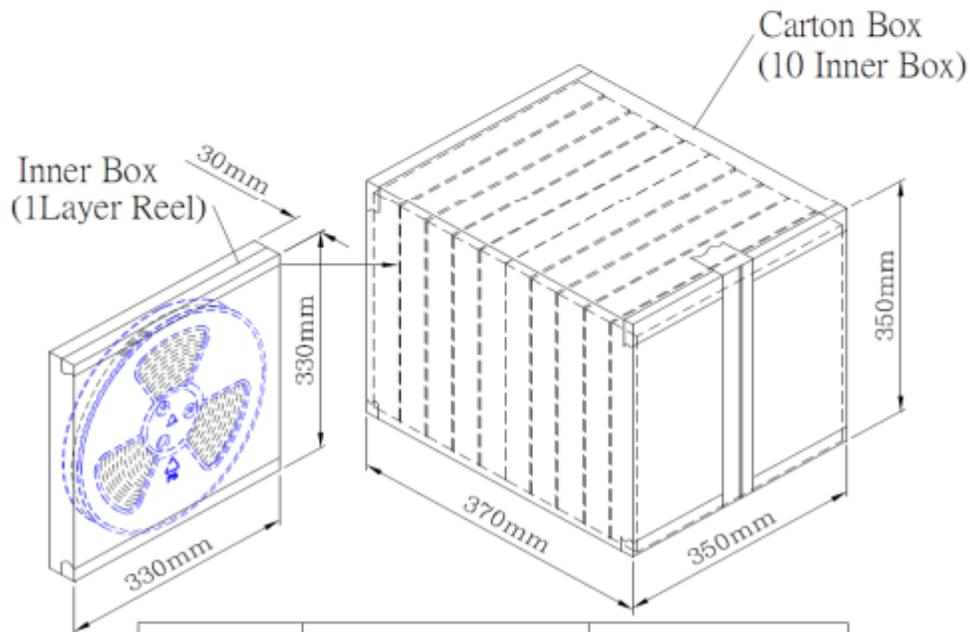
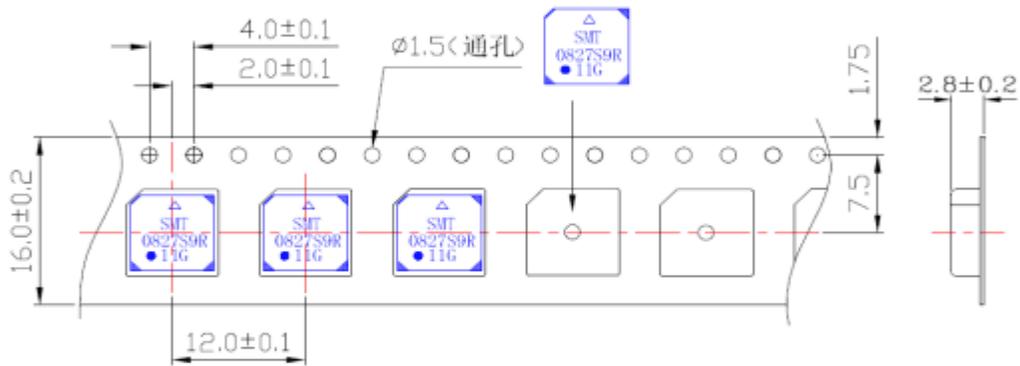


\*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

## Packaging



1 Reel : 1000PCS



Inner Box	330mmx330mmx30mm	1x1000PCS=1000PCS
Carton Box	350mmx350mmx370mm	10x1000PCS=10,000PCS

**Specifications Revisions**

<b>Revision</b>	<b>Description</b>	<b>Date</b>	<b>Approved</b>
-	Released from Engineering	06/16/2011	-
A	Added dimensions	01/13/2012	ML
B	Revised voltage units and weight	02/28/2020	MV
C	Updated Spec format, Add details for Reliability, Packaging, etc. Add MSL 2A (24C and after)	05/15/2024	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.