



# PUI audio



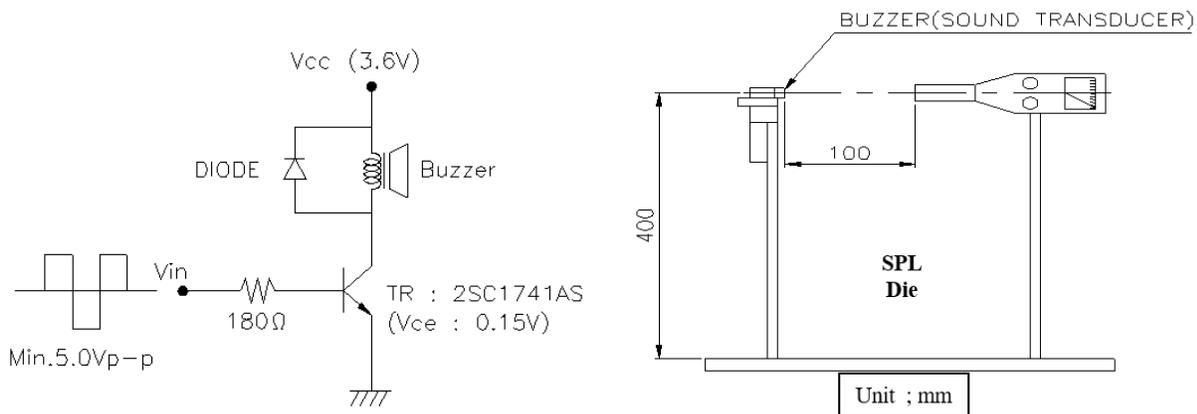
Data Sheet

SMT-0826-S-R

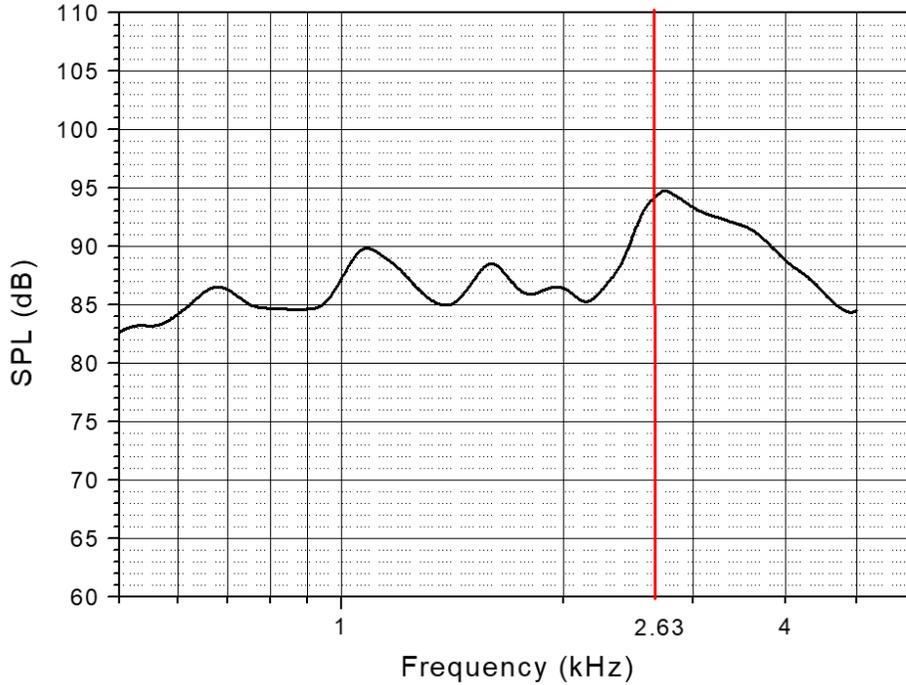
## Specifications

Parameters	Values	Units
Rated Voltage	3.6	V0-pk
Operating Voltage Range	2.5 – 4.5	V0-pk
Current Draw at Rated Voltage	90 (Max.)	mA
Coil Resistance	15.0 ± 3	Ohms
Minimum SPL @ 10cm	90.0	dBA
Resonant Frequency	2630 ± 500	Hz
Housing Material	LCP	-
Terminal Material	Sn plated Phosphor Bronze	-
Weight	0.39	Grams
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See following pages for soldering information
Environmental Compliances	ROHS/REACH	-
Moisture Sensitivity Level (MSL)	2	-
Storage Temperature	-40 to 85	°C
Operating Temperature	-30 to 70	°C

## Measurement Method (3.6Vpk square wave, 2630Hz @ 10cm)

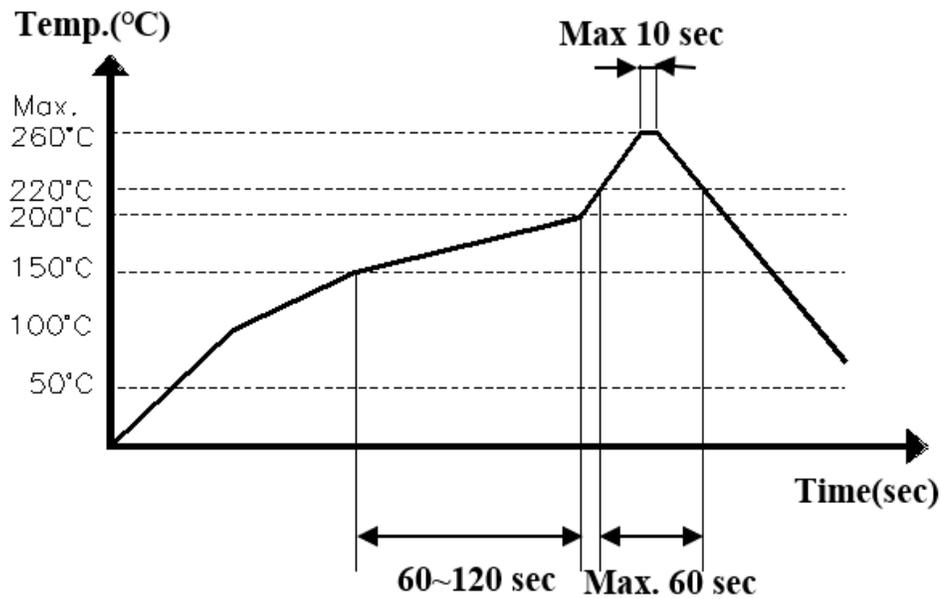


## Typical Frequency Response (3.6Vpk square wave, 2630Hz @ 10cm)



## Recommended Soldering Procedure

- Recommendable reflow soldering condition is as follows.  
Note 1; It is requested that reflow soldering should be executed after heat of product goes down to normal temperature.  
Note 2; Peak reflow temperature of 260°C, with a maximum duration of 60 sec. between 220°C and 260°C



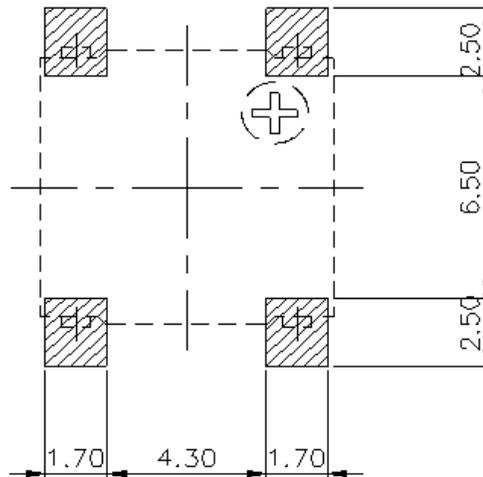
\* Reflow profile of lead-free

## Recommended Soldering Procedure (Cont'd)

**\*Manual Soldering – Iron temperature 350°C, solder time 2-3 seconds per terminal.**

**\*Part is not washable.**

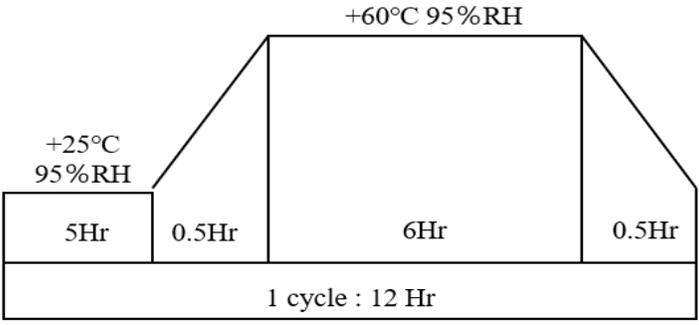
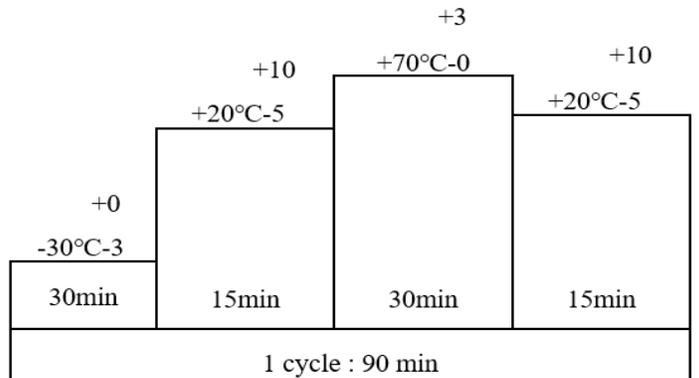
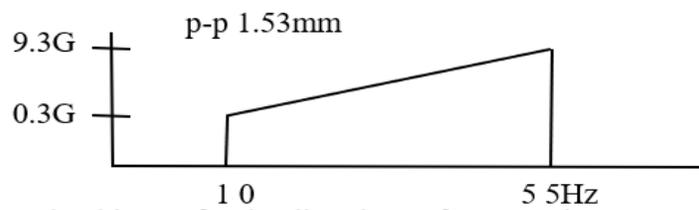
## Suggested Land Pattern\* (mm)



\*This land pattern is advisory only and its use or adaptation is entirely voluntary.

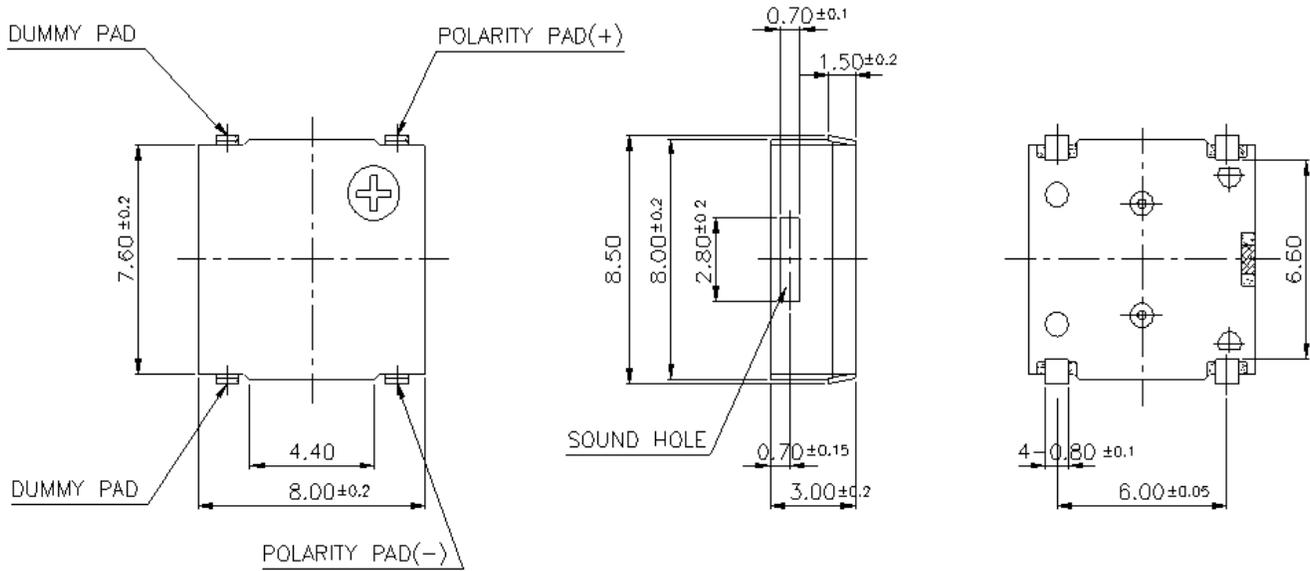
PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

## Reliability Testing

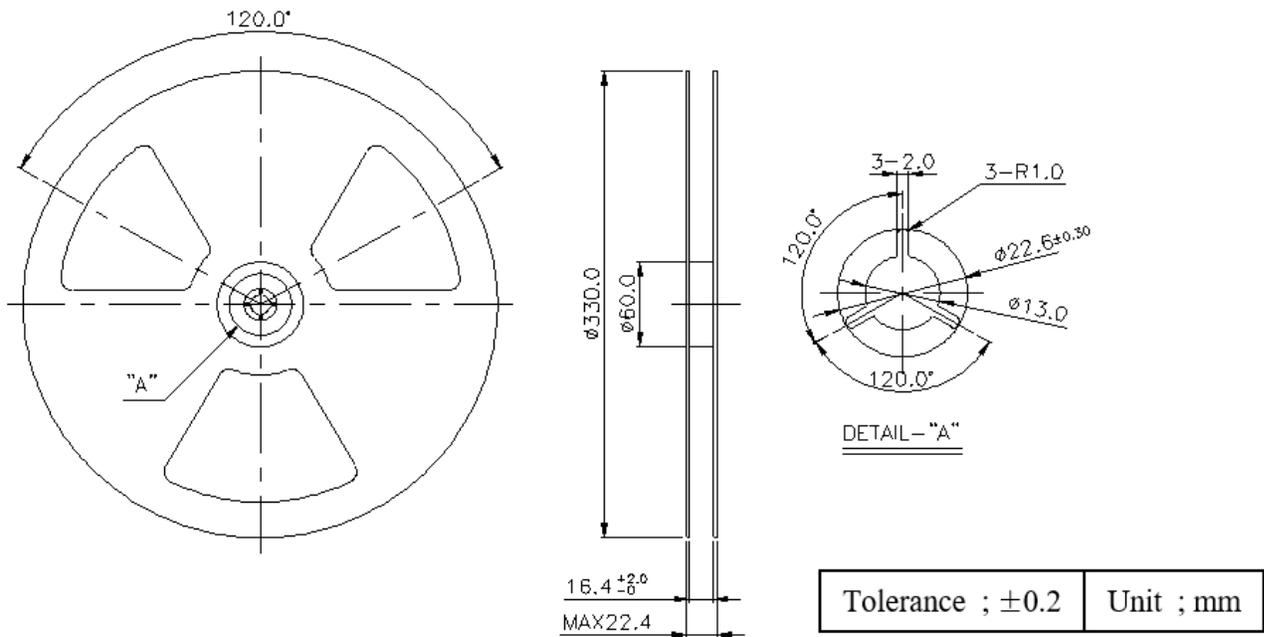
Type of Test	Test Specifications
High Temperature Test	96 hours at 85°C then rest at room temperature for 2 hours before testing.
Low Temperature Test	96 hours at -40°C then rest at room temperature for 2 hours before testing.
Humidity Test	 <p>1 cycle : 12 Hr</p> <p>Make this test for 10 cycles without applying power, then expose to the room temperature for 2 hours.</p>
Temperature Cycle Testing	 <p>1 cycle : 90 min</p> <p>Make this test for 5 cycle 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 and Z. for 2 hours each (total 6 hours).              To-and-fro sweep time is 1 minute</p> <p>Dimension of PCB : 60×90 ×1.6t (mm)</p>
Drop Test	Affix to PCB and drop from 120cm height to direction of 6 surfaces for 3 cycles.
Load Test	1000hrs, 3.6Vpk, 2630Hz square wave

**After each test, part shall pass within ± 5dB of stated specification.**

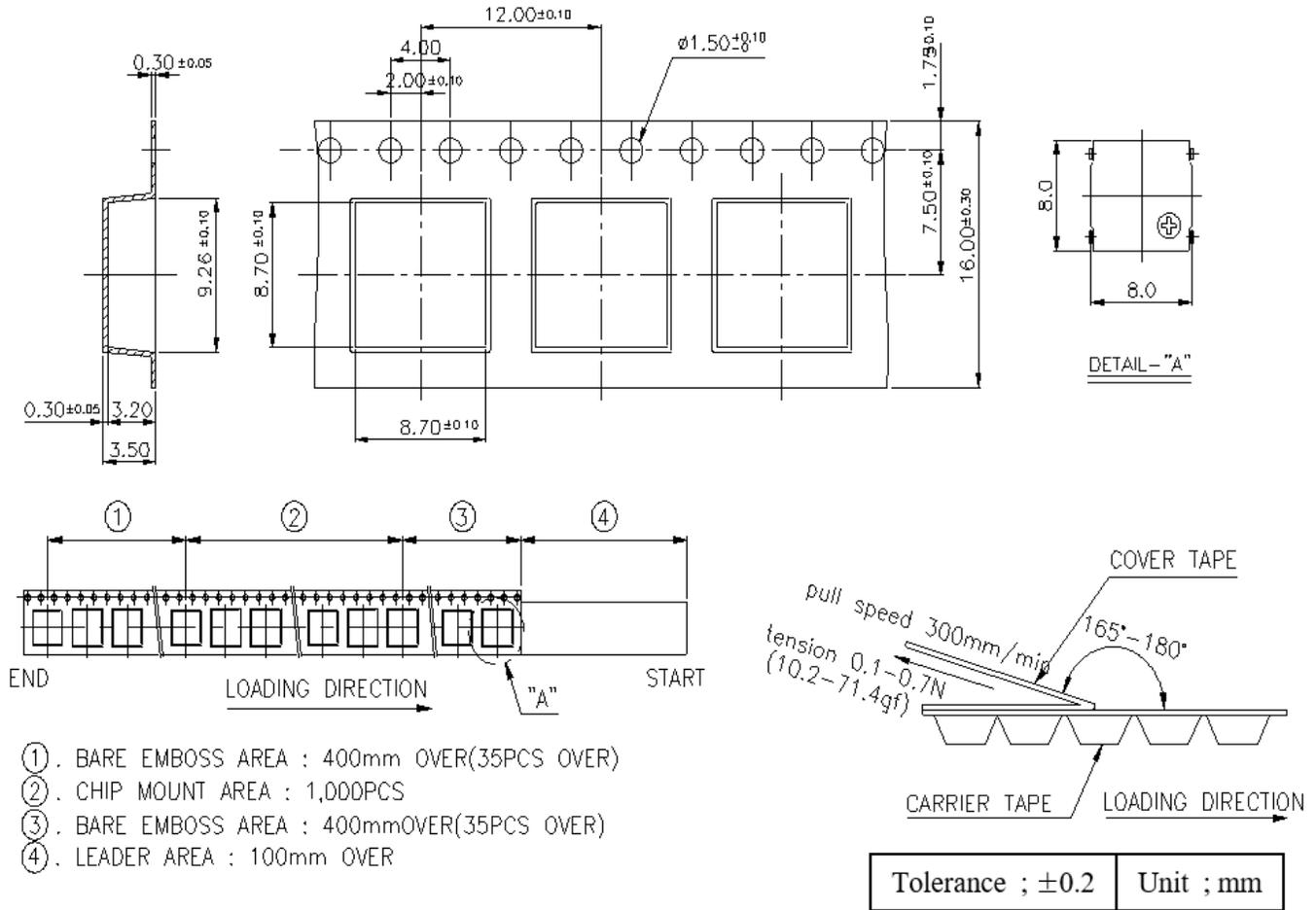
## Dimensions



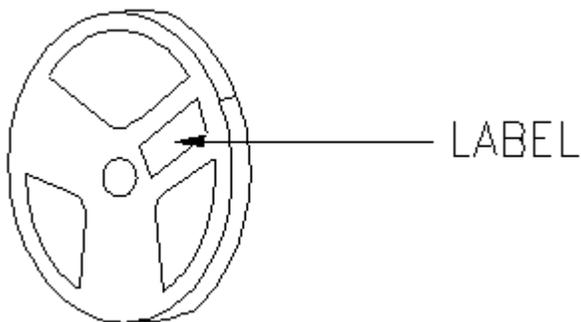
## Packaging



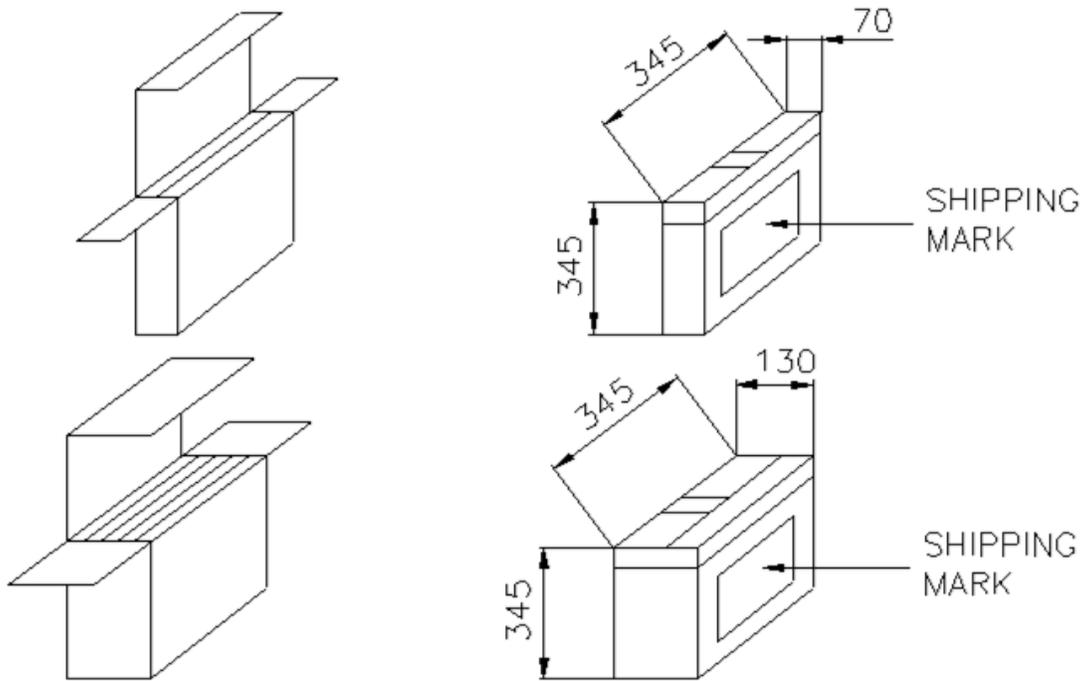
## Packaging (Cont'd)



1000pcs per reel



2 reels or 5 reels per master carton



**Specifications Revisions**

Revision	Description	Date	Approved
-	Released from Engineering	08/09/2005	-
A	Revised to Inventor 3D Drawing Template	05/03/2010	BR
B	Updated ROHS and Added Reflow Note	01/25/2019	ML
C	Update MSL to level 2	01/07/2025	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.
3. This part is ROHS 2015/863/EU compliant
4. Reflow acceptable, Max temp 260C for 10sec or less.