



# PUIaudio



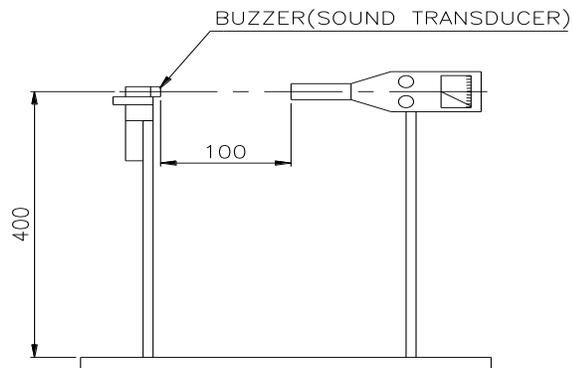
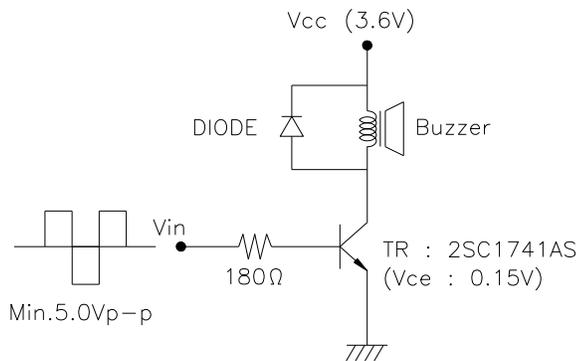
Data Sheet

SMT-0825-T-R

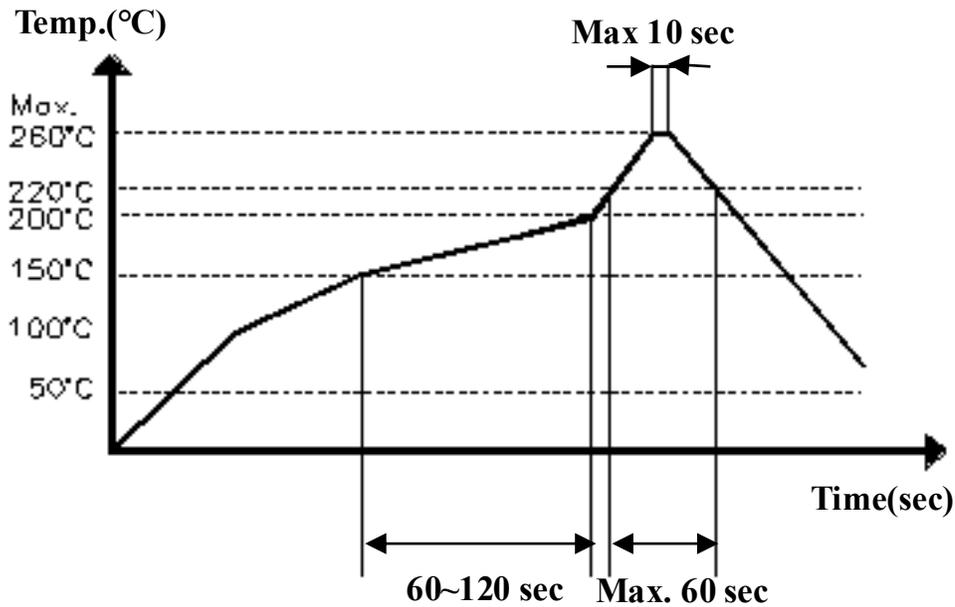
## Specifications

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 ± 3	Ohms
Minimum SPL @ 10cm	87	dB
Resonant Frequency	2500 ± 500	Hz
Housing Material	LCP	-
Terminal Material	Sn Plated PBS	-
Weight	0.42	Grams
Moisture Sensitivity Level (MSL)	2	-
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See following pages
Environmental Compliances	ROHS/REACH	-
Storage Temperature	-40 ~ 85	°C
Operating Temperature	-30 ~ 70	°C

## Measurement Method (Square Wave 3.6Vpk, 2.5kHz @ 10cm)



## Recommended Soldering Procedure

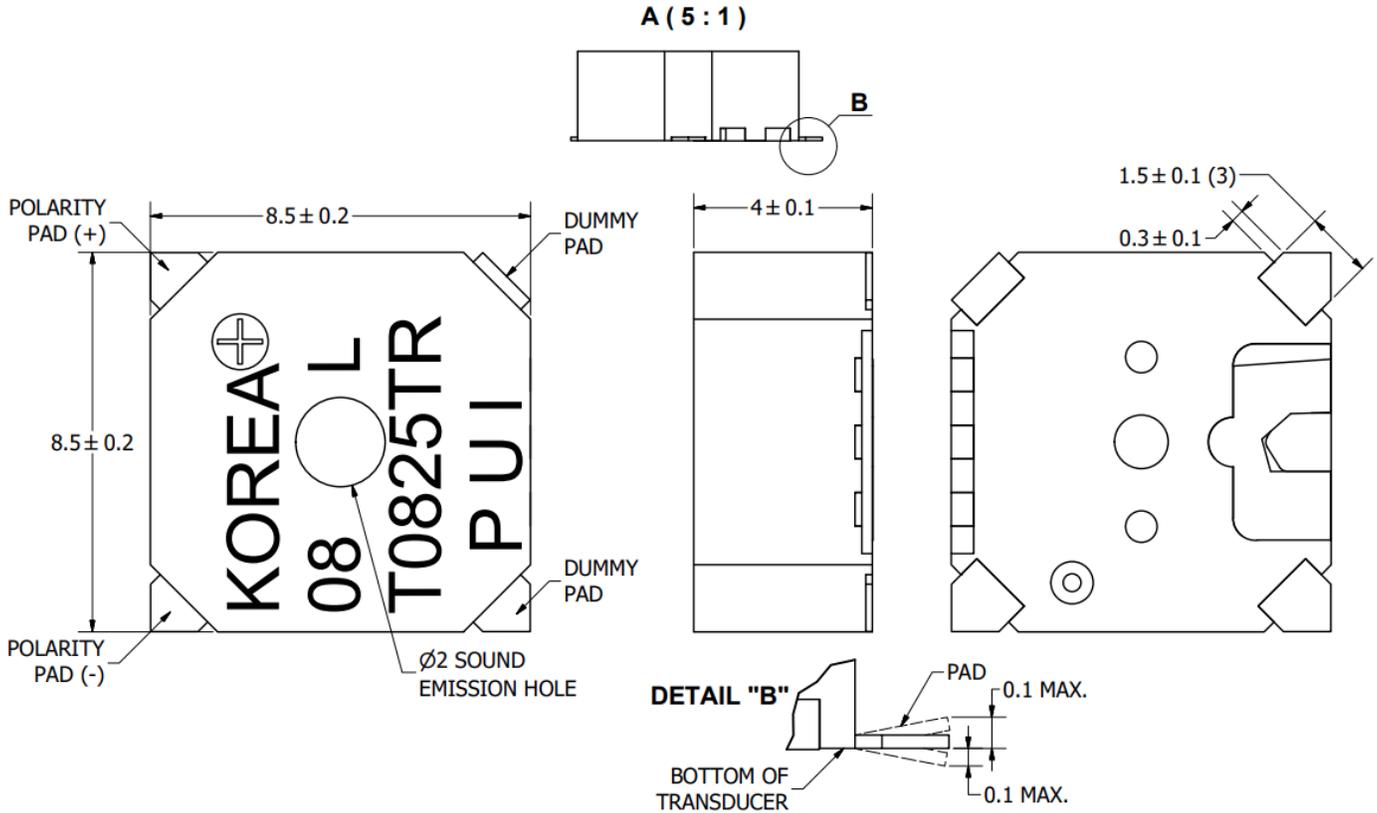


## Reliability Testing

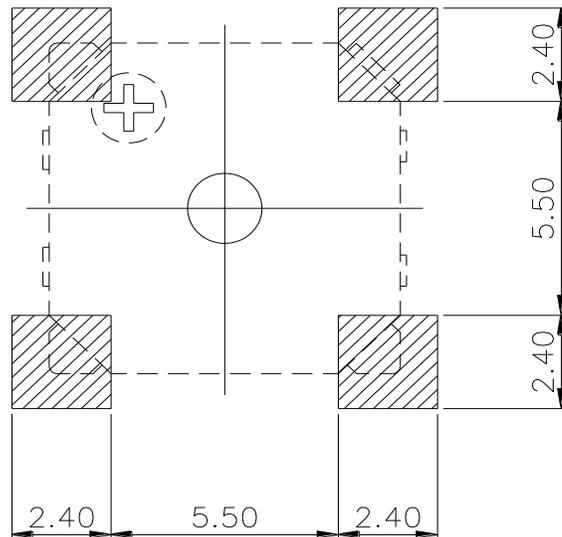
Type of Test	Test Specifications
High Temperature Test	96 hours at 85°C, then room temperature for 2 hours.
Low Temperature Test	96 hours at -40°C, then room temperature for 2 hours.
Humidity Test	120 hours at 25°C with relative humidity at 95%, then room temperature for 2 hours.
Temperature Cycle Testing	<p>Test above for 5 cycles applying power, then expose to room temperature for 2 hours.</p>
Shock Test	If applicable, describe conditions of test.
Drop Test	Height of 120cm, to the direction of six surfaces for 3 cycles.

After tests, part shall be within  $\pm 5$ dB of stated SPL.

## Dimensions



## Suggested Land Pattern\*

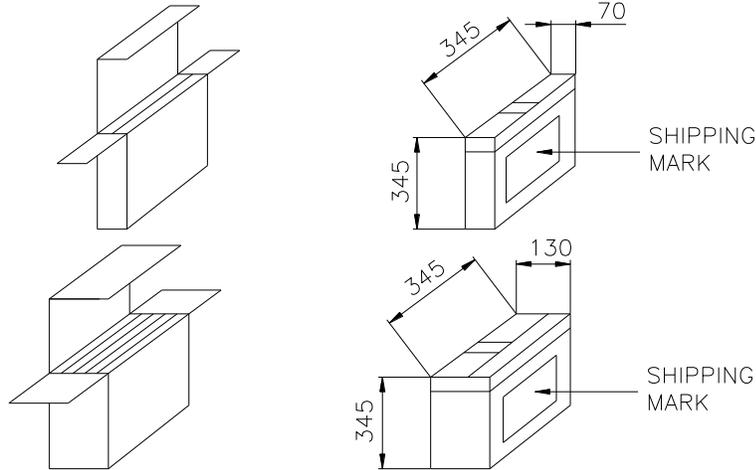


\*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

## Packaging

1,000 PCS per 1roll by using the tapping M/C.

2 rolls or 5 rolls per 1 double(thick) carton box packed by polypropylene tape.



### Specifications Revisions

Revision	Description	Date	Approved
-	Released from Engineering	01/04/2005	-
A	Changed material and terminal material	03/09/2005	GV
B	Removed lead free added RoHS note	08/10/2005	-
C	Added resonant frequency tolerance	05/16/2007	RW
D	Revised to inventor 3-D drawing template	05/03/2010	BR
E	Revised voltage specifications from Vp-p to V0-p	08/31/2020	MV
F	Updated Spec Format, Add details for Packaging, Reliability, Add MSL 2	06/04/2025	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.