



# PUI audio



Data Sheet AI-1440-TWT-24V-3-R

## Features:

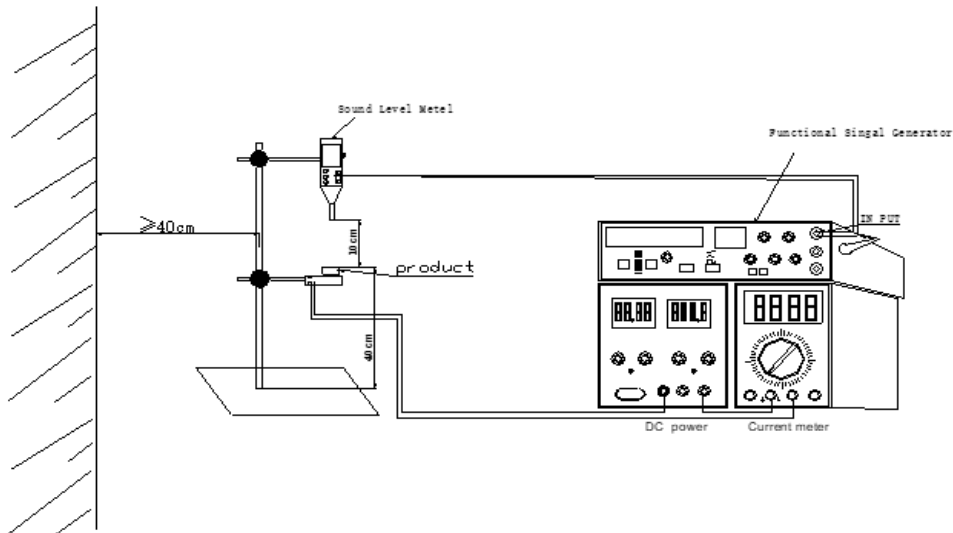
- Piezo Indicator
- 24VDC rated, 4000Hz
- Top-Firing Thru-Hole Type
- Wave Solder and Wash allowed

## Specifications

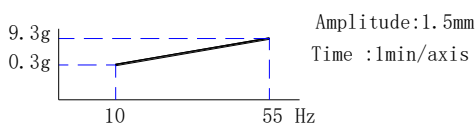
Parameters	Values	Units
Rated Voltage	24	VDC
Operating Voltage Range	5 ~ 28	VDC
Current Draw at Rated Voltage	20(Max.)	mA
Minimum SPL @ 10cm	88	dBA
Resonant Frequency	4,000 ± 500	Hz
Tone or Pulse Rate	Continuous	-
Housing Material	PPO	-
Pin Material	Sn plated Copper	-
Weight	0.96	Grams
Acceptable Soldering Methods	Hand Solder	-
Environmental Compliances	RoHS/REACH	Ex. 7c-1
Storage Temperature	-30 ~ +80	°C
Operating Temperature	-20 ~ +70	°C

## Measurement Method (Temperature: 25±3°C; Relative Humidity: 60% ~ 70%)

Standard Test Fixture (Distance: 10cm, 24VDC)

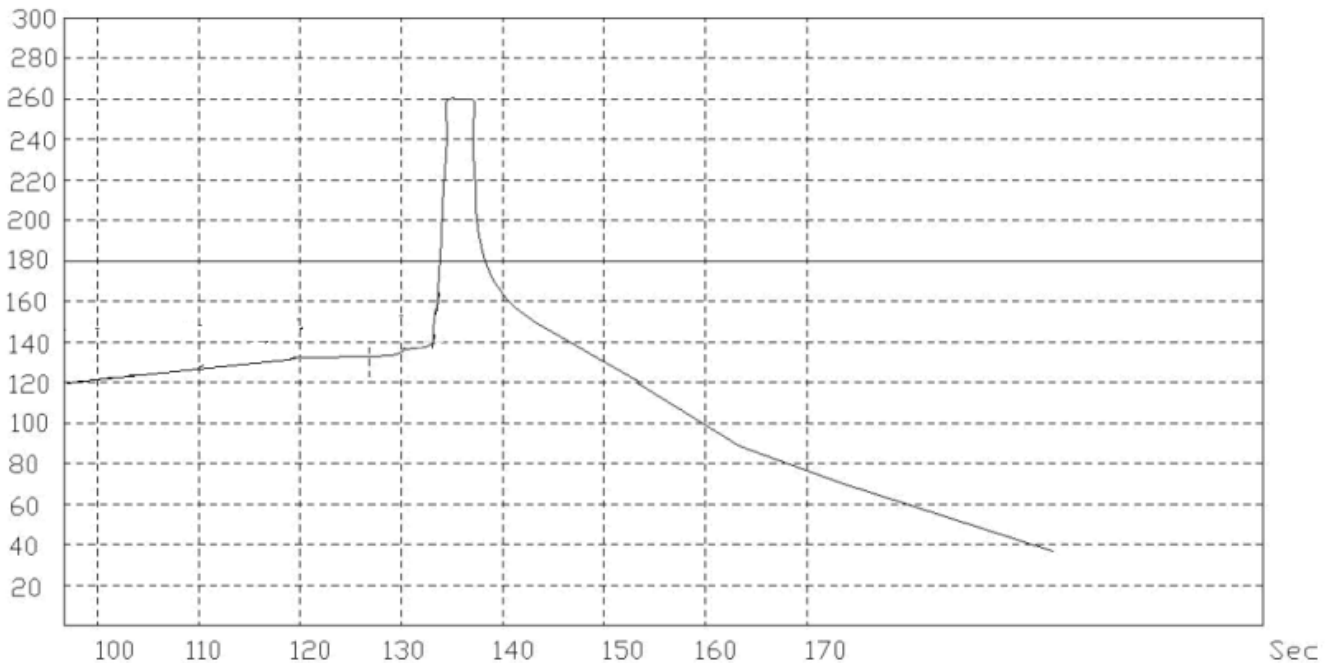


## Reliability Testing

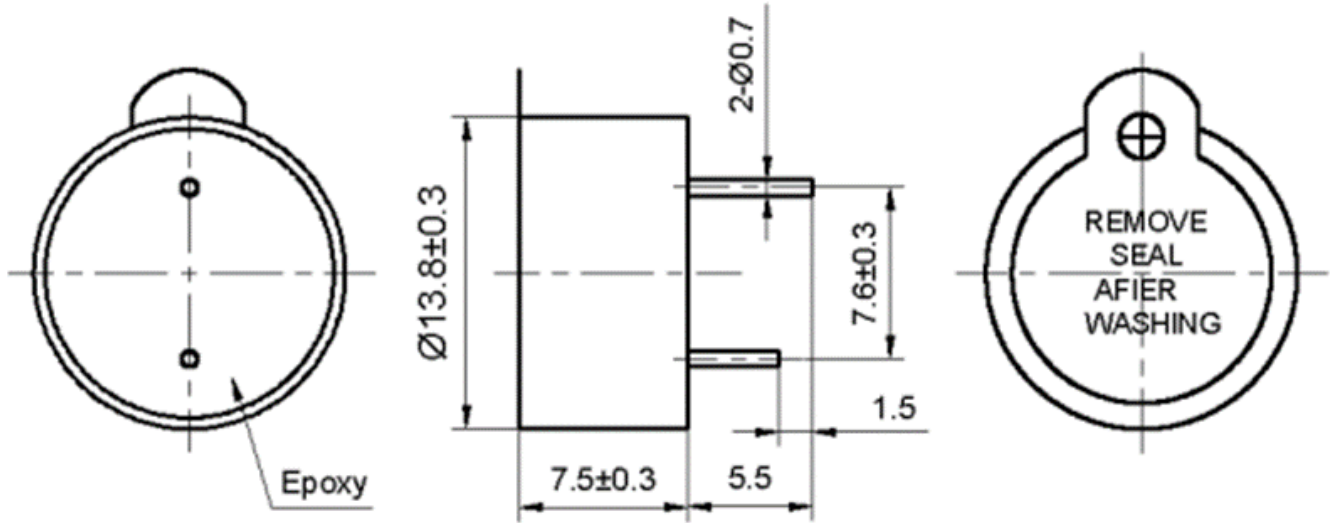
Type of Test	Test Specifications
High Temperature Test	Storage in +90°C±2°C test box for 96 hours, then expose to the room temperature for 2-4 hours without applying power.
Low Temperature Test	Storage in -40°C±2°C test box for 96 hours, then expose to the room temperature for 2-4 hours without applying power.
Humidity Test	Storage in +40°C±2°C 90-95%RH test box for 96 hours, then expose to the room temperature for 2-4 hours without applying power.
Temperature Cycle Testing	-40C for 30 min, +20C for 15 min, +90C for 30 min, +20C for 15. Complete the above test for 5 cycles without applying power, then expose to the room temperature for 2-4 hours.
Vibration Test	 <p>Make this test for the directions of X, Y, Z for 2 hours each (total 6 hours).</p>
Drop Test	Drop part from height of 70cm onto surface of 10mm thick board, three directions (X, Y, Z) (total 9 times).

**\*After tests, part shall meet specification with SPL within ±10dB.**

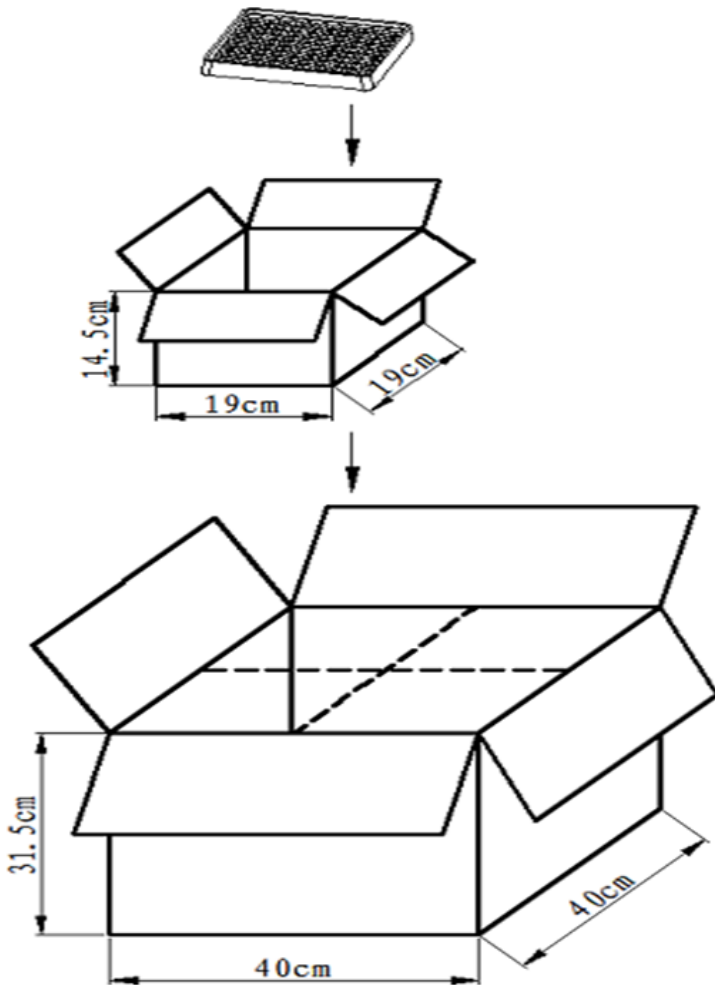
## Recommended Wave Solder Profile



## Dimensions



## Packaging



### NOTES:

1. 100 PCS per box
2. 10 boxes per inner carton
3. 1000pcs per inner carton
4. Inner carton volume:  $19 \times 19 \times 14.5\text{cm}$
5. 8 pcs inner cartons per carton
6. Total 8000 PCS carton
7. Volume:  $40 \times 40 \times 31.5\text{cm}$

**Specifications Revisions**

<b>Revision</b>	<b>Description</b>	<b>Date</b>	<b>Approved</b>
A	RELEASED FROM ENGINEERING	04/02/2020	-
B	Update Spec Format, Add details for Reliability, Packaging, etc.	06/24/2024	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.