



PUI audio



Data Sheet AI-2332-TWT-12V-2-R

Features:

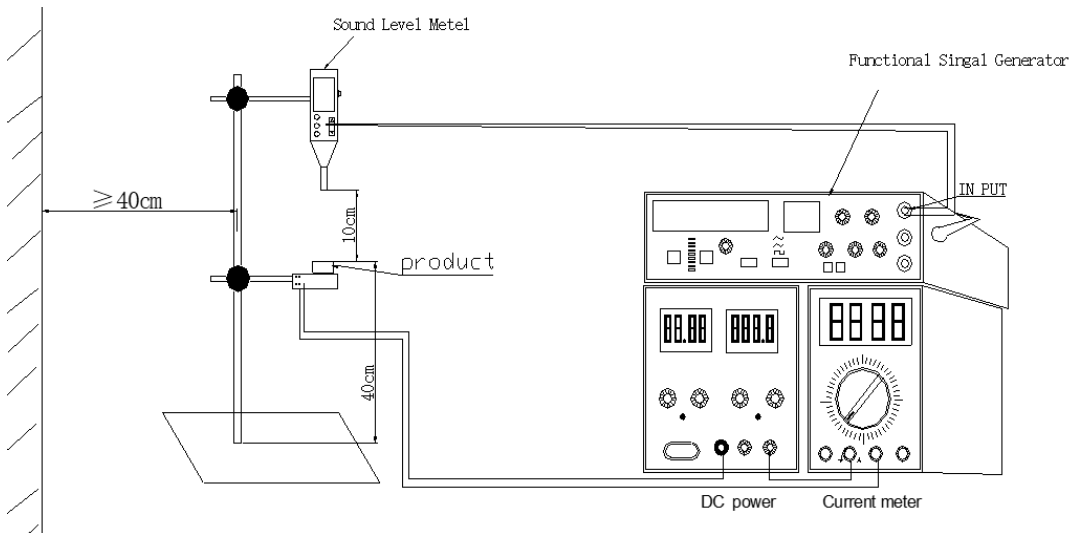
- Piezo Indicator
- 12VDC rated, 3200Hz
- Top-Firing Thru-Hole Type
- Wave Solder Allowed, Wash NOT Allowed

Specifications

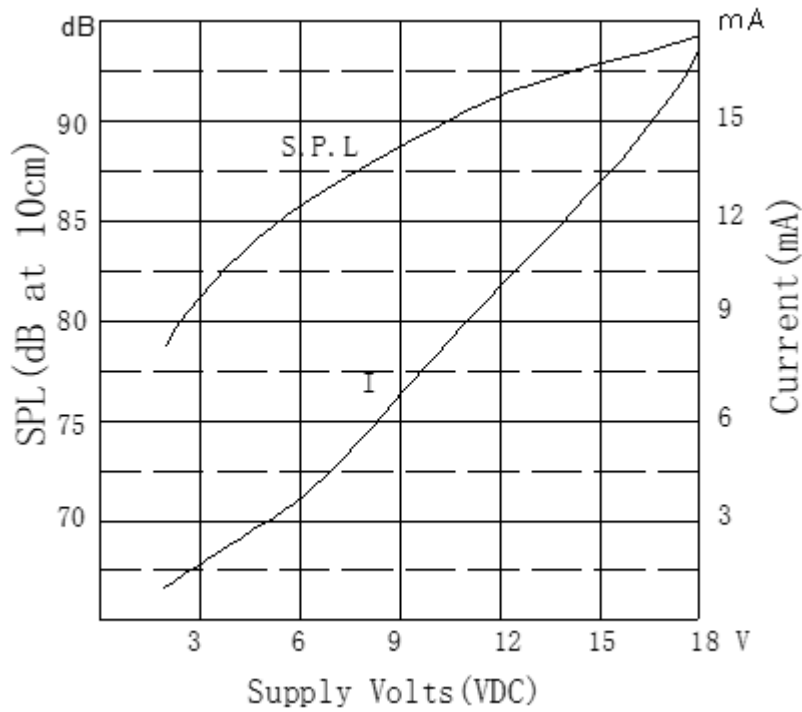
Parameters	Values	Units
Rated Voltage	12	VDC
Operating Voltage Range	3 ~ 20	VDC
Current Draw at Rated Voltage	13(Max.)	mA
Minimum SPL @ 10cm	85	dBA
Resonant Frequency	3,200 ± 500	Hz
Tone or Pulse Rate	Continuous	-
Housing Material	PBT	-
Terminal Material	Sn Plated Red Copper(DSn)	-
Weight	3	Grams
Acceptable Soldering Methods	Hand Solder, Wave Solder	See Following Details
Environmental Compliances	RoHS/REACH	Ex. 7c-1
Storage Temperature	-40 ~ +120	°C
Operating Temperature	-30 ~ +100	°C

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

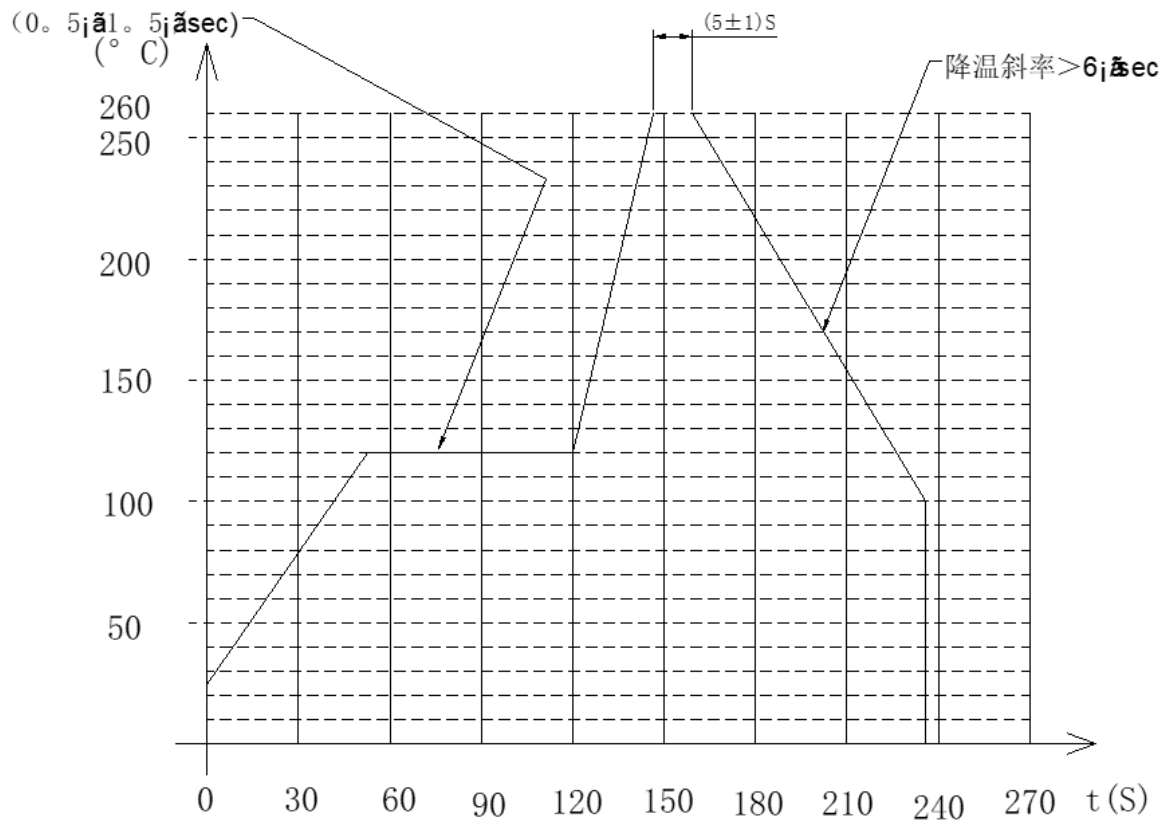
Standard Test Fixture (Distance=10cm, Power=12VDC)



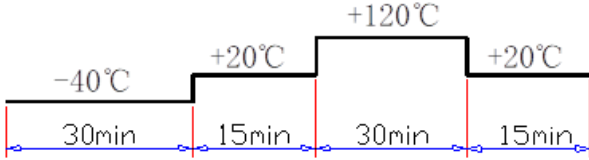
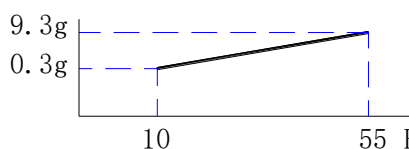
Typical SPL vs Input Voltage



Recommended Wave Solder Process

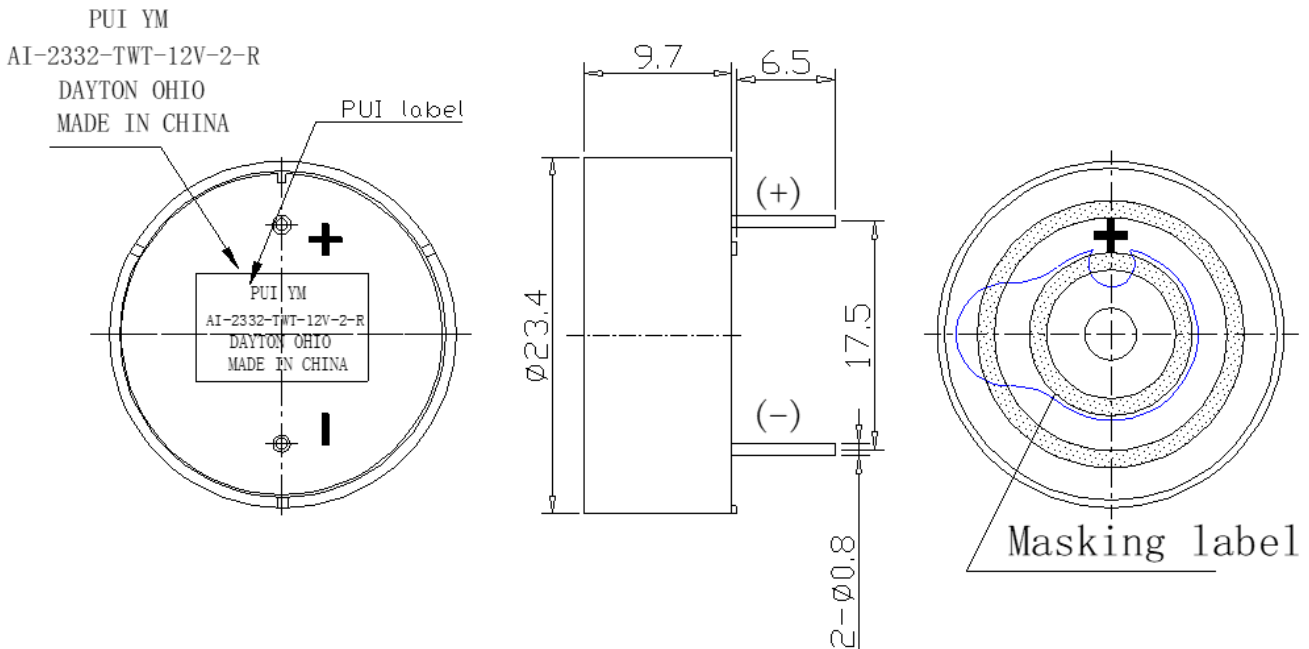


Reliability Testing

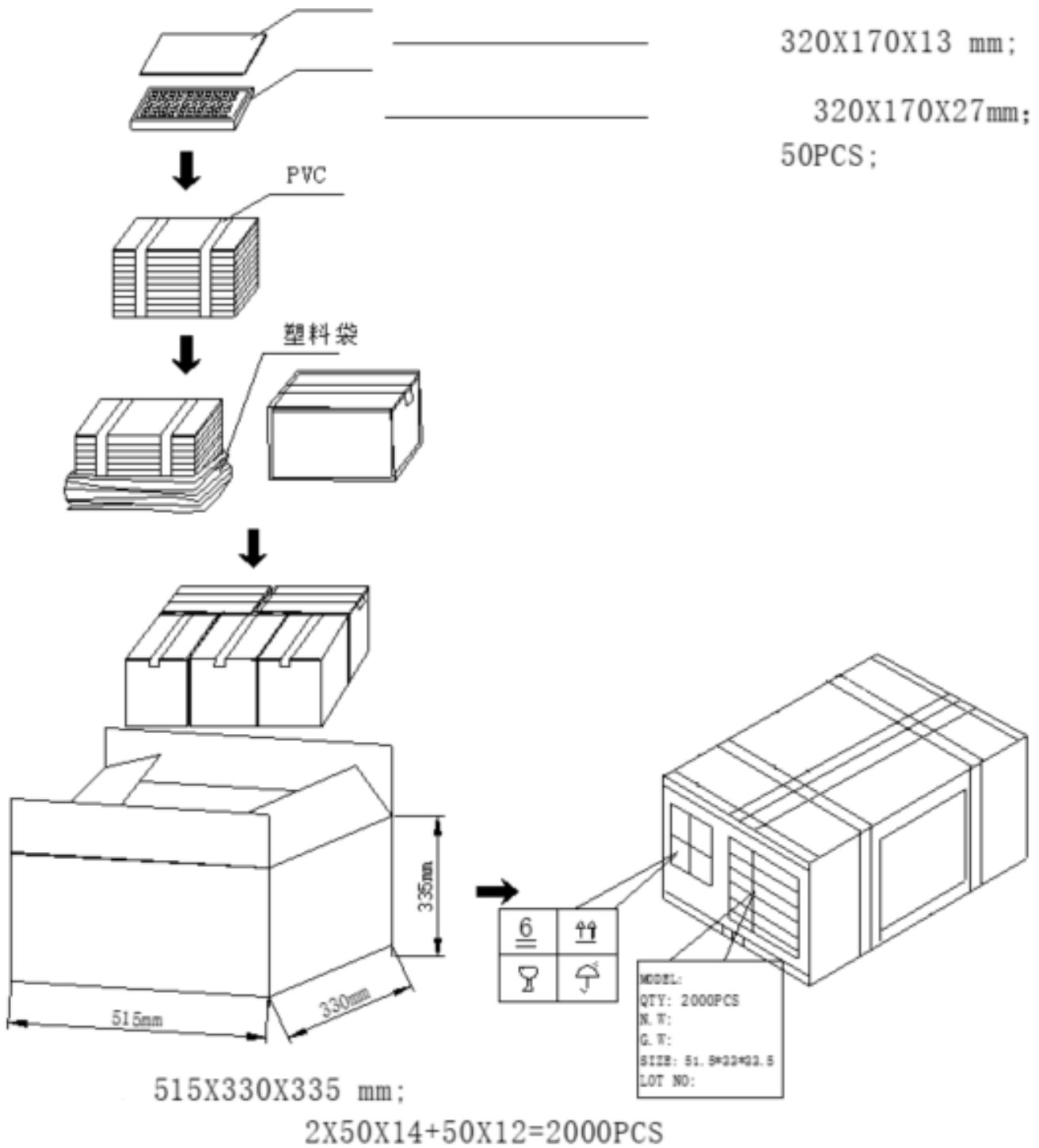
Type of Test	Test Specifications
High Temperature Test	Storage in $+120^{\circ}\text{C} \pm 2^{\circ}\text{C}$ test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
Low Temperature Test	Storage in $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
Humidity Test	Storage in $+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 90-95%RH test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
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>Amplitude: 1.5mm Time : 1min/axis</p> <p>Make this test for the directions of X, Y, Z for 2 hours each (total 6 hrs)</p>
Drop Test	Free drop a unit from the height 70cm to the surface of 10mm thick board, three directions (X, Y, Z).

After tests, part SPL shall pass within $\pm 5\text{dB}$.

Dimensions



Packaging



Specifications Revisions

Revision	Description	Date	Approved
-	RELEASED FROM ENGINEERING	06/30/2006	-
A	REVISED TO INVENTOR 3D DRAWING TEMPLATE	12/20/2007	BR
B	Update Spec Format, Add details for Reliability, Packaging, etc.	06/28/2024	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.