



# PUI audio



Data Sheet

AI-1622-TWT-12V-R

## Features:

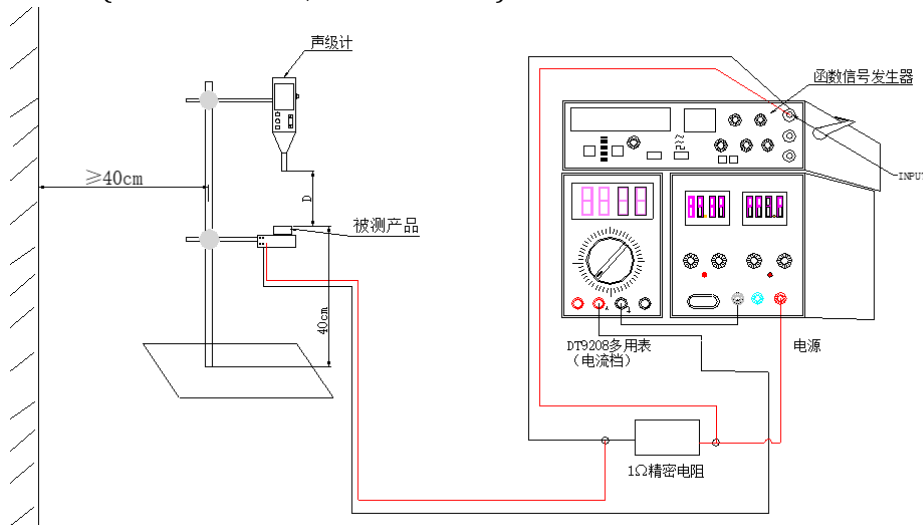
- Top-firing, thru-hole magnetic indicator
- 12 V<sub>DC</sub>, 2200 Hz resonant frequency
- Wave solder and Wash Allowed

## Specifications

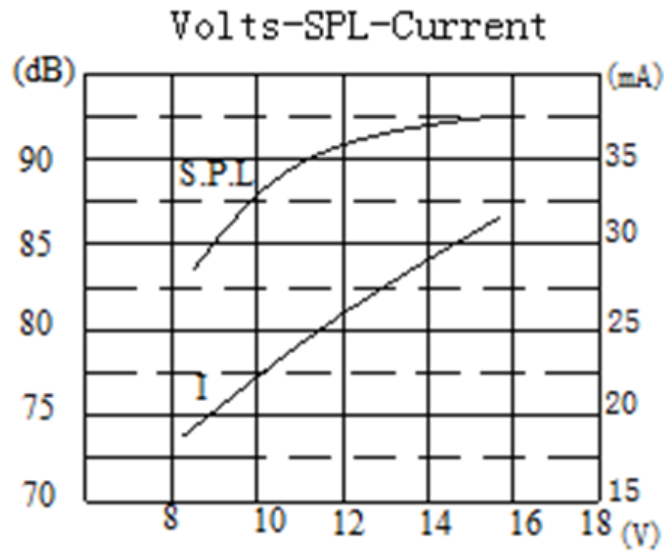
Parameters	Values	Units
Rated Voltage	12	V <sub>DC</sub>
Operating Voltage Range	8 ~ 15	V <sub>DC</sub>
Current Draw at Rated Voltage	30(Max.)	mA
Minimum SPL @ 10cm	85	dBA
Resonant Frequency	2,200±300	Hz
Tone or Pulse Rate	Continuous	-
Housing Material	NORYL	-
Terminal Material	Sn Plated Red Copper(DSn)	-
Weight	5	Grams
Acceptable Soldering Methods	Hand Solder, Wave Solder	See Following Pages
Environmental Compliances	RoHS/REACH	-
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-30 ~ +70	°C

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

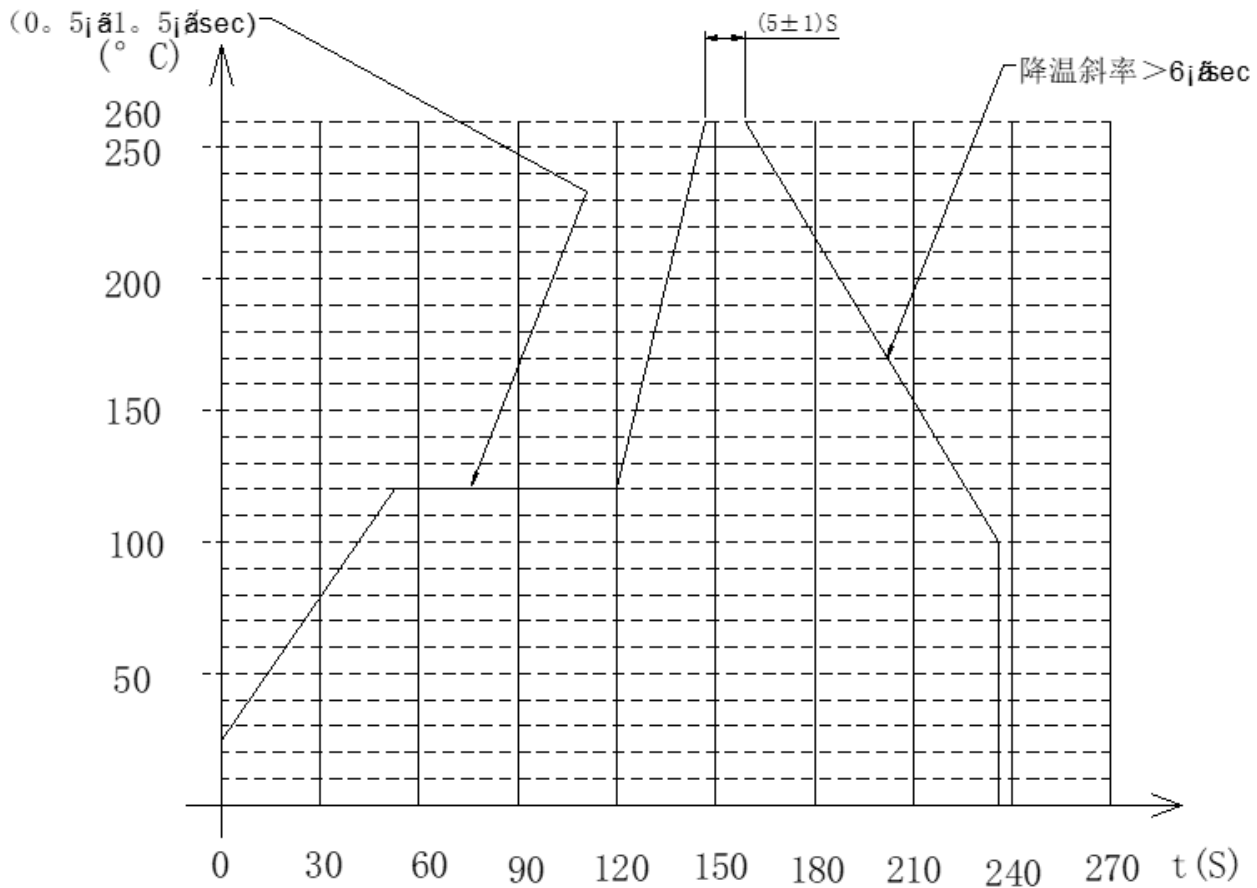
Standard test fixture (Distance=10cm, Power=12Vdc)



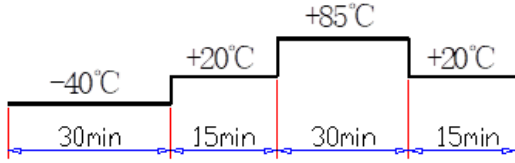
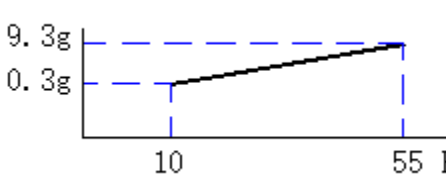
## Typical SPL Vs Voltage



## Recommended Wave Soldering Procedure

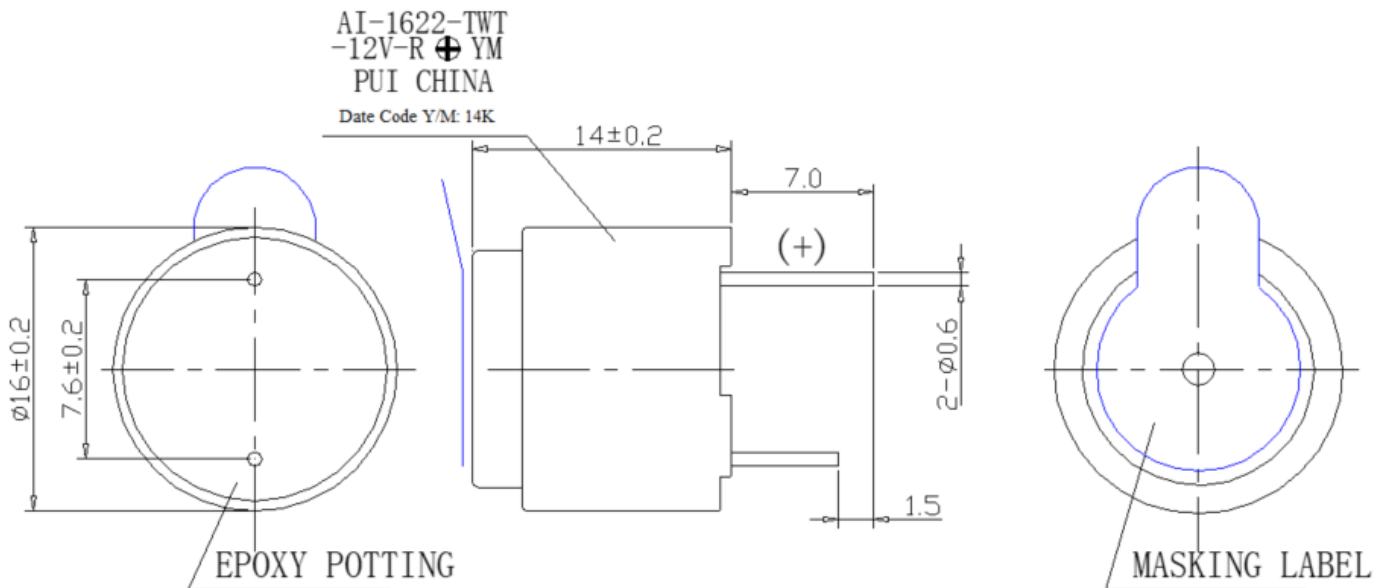


## Reliability Testing

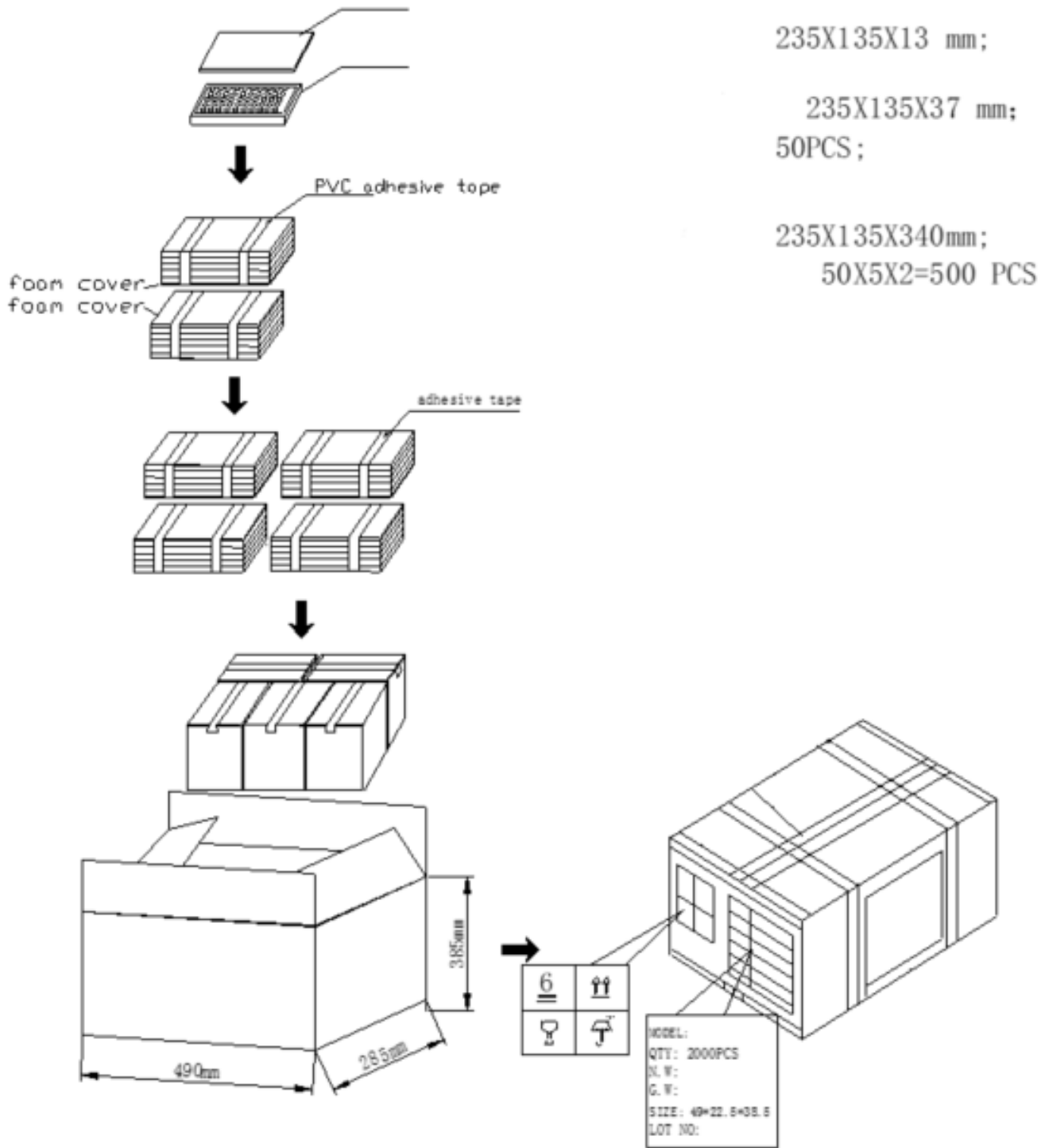
Type of Test	Test Specifications
High Temperature Test	96 hours at +85±2°C, then rest at room temperature for 2 hours without applying power.
Low Temperature Test	96 hours at -40±2°C, then rest at room temperature for 2 hours without applying power.
Humidity Test	96 hours at +40±2°C with relative humidity at 90-95% then rest at room temperature for 2 hours without applying power.
Temperature Cycle Testing	 <p>Complete the above test for 5 cycles without applying power. Then expose part to room temperature for 2 hours before testing.</p>
Vibration Test	 <p>Amplitude: 1.5mm Time : 1min/axis</p> <p>Complete above test in each X,Y,Z direction for 2 hours each (total 6hrs)</p>
Drop Test	Drop from 100cm onto the surface of a 1cm thick wooden board.

**\*After tests, part SPL shall be within ±5dB.**

## Dimensions



## Packaging



**Specifications Revisions**

<b>Revision</b>	<b>Description</b>	<b>Date</b>	<b>Approved</b>
-	RELEASED FROM ENGINEERING	08/19/2004	-
A	Revised ROHS Statement	05/27/2005	BR
B	Revised Dimension Size and Style	11/21/2005	BR
C	Revised Terminal Material	03/20/2006	BR
D	Revised to 3D Drawing Template	10/10/2007	BR
E	Revised Temperature Ratings	02/25/2020	ML
F	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.