



PUI audio



Data Sheet

AI-1223-TWT-5V-2-R

Features:

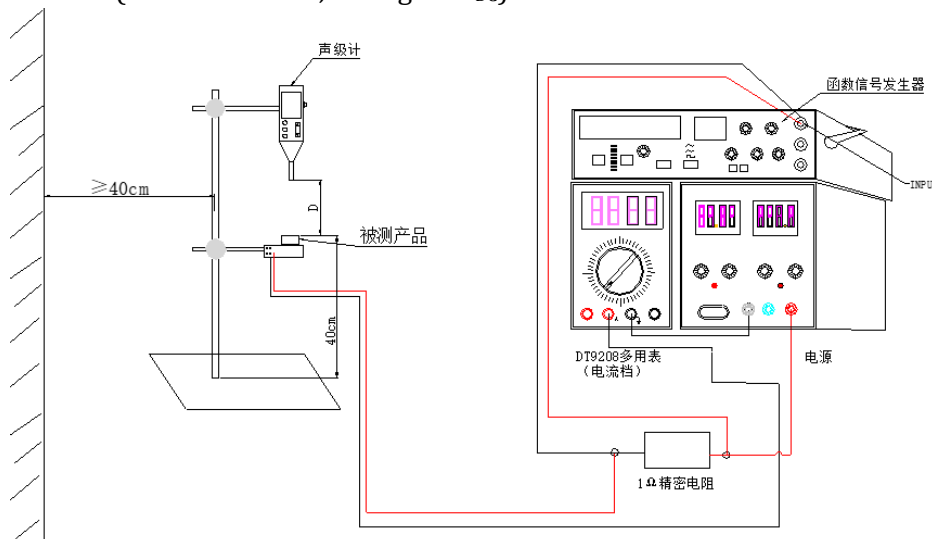
- Top-firing, thru-hole magnetic indicator
- 5V_{DC}, 2300 Hz resonant frequency
- Wave Solder and Washing Allowed

Specifications

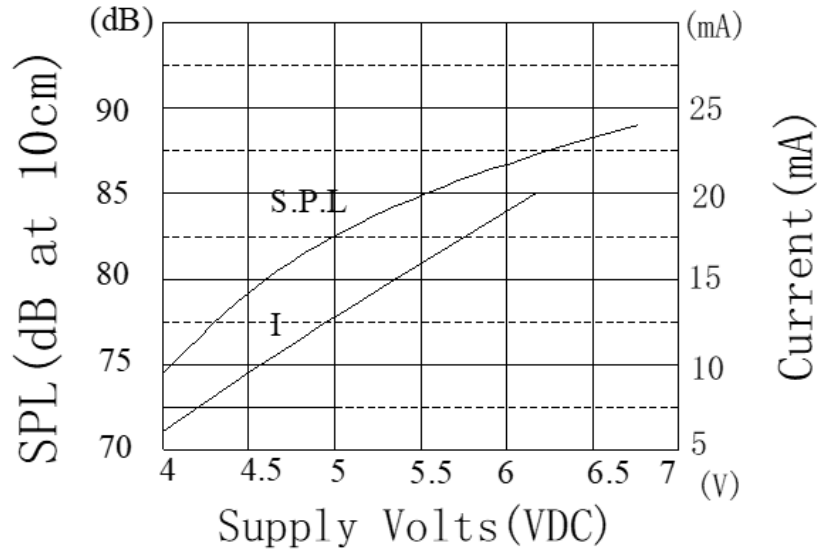
Parameters	Values	Units
Rated Voltage	5	V _{DC}
Operating Voltage Range	3 ~ 7	V _{DC}
Current Draw at Rated Voltage	30(Max.)	mA
Minimum SPL @ 10cm	85	dBA
Resonant Frequency	2,300±400	Hz
Tone or Pulse Rate	Continuous	-
Housing Material	PBT	-
Terminal Material	Sn Plated Red Copper(DSn)	-
Weight	2	Grams
Acceptable Soldering Methods	Hand Solder, Wave Solder	-
Environmental Compliances	RoHS/REACH	-
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-30 ~ +70	°C

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

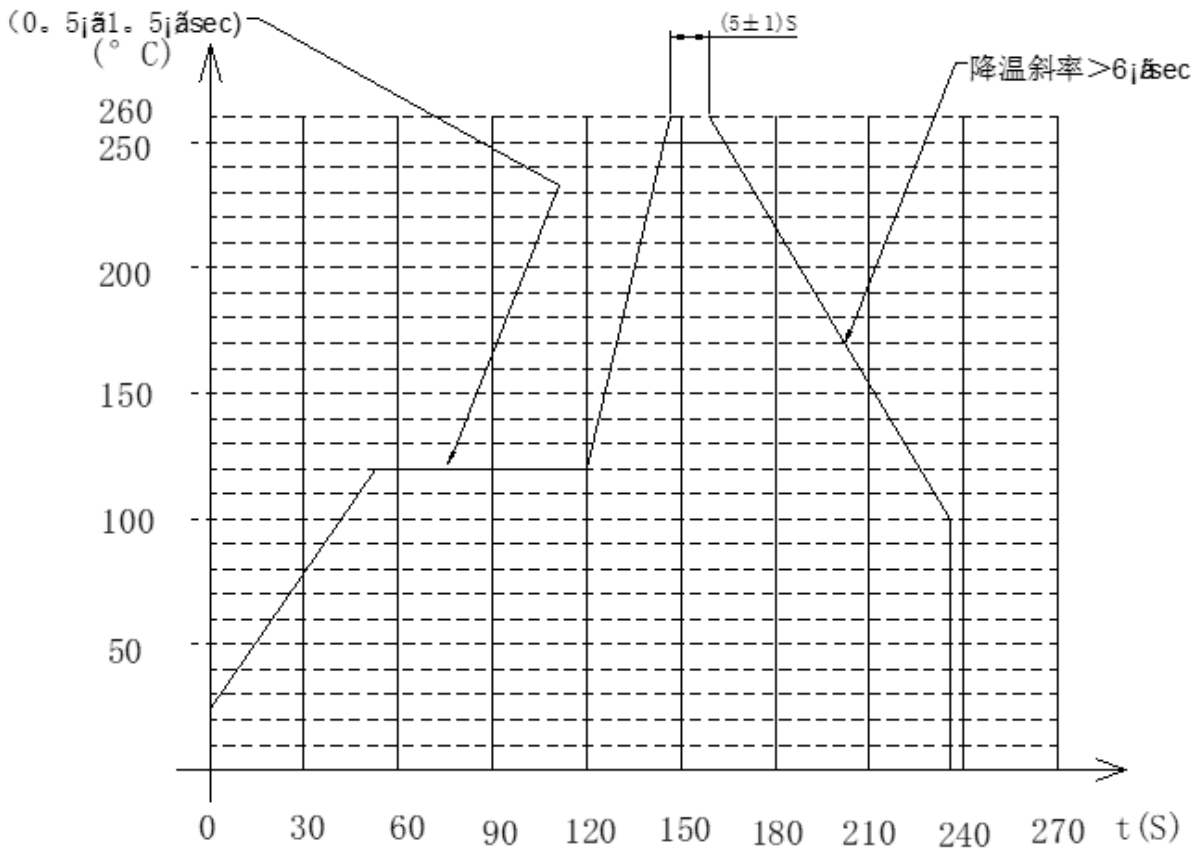
Standard test fixture (Distance: 10cm; Voltage: 5V_{DC})



Typical SPL Vs Voltage



Recommended Wave Soldering Profile

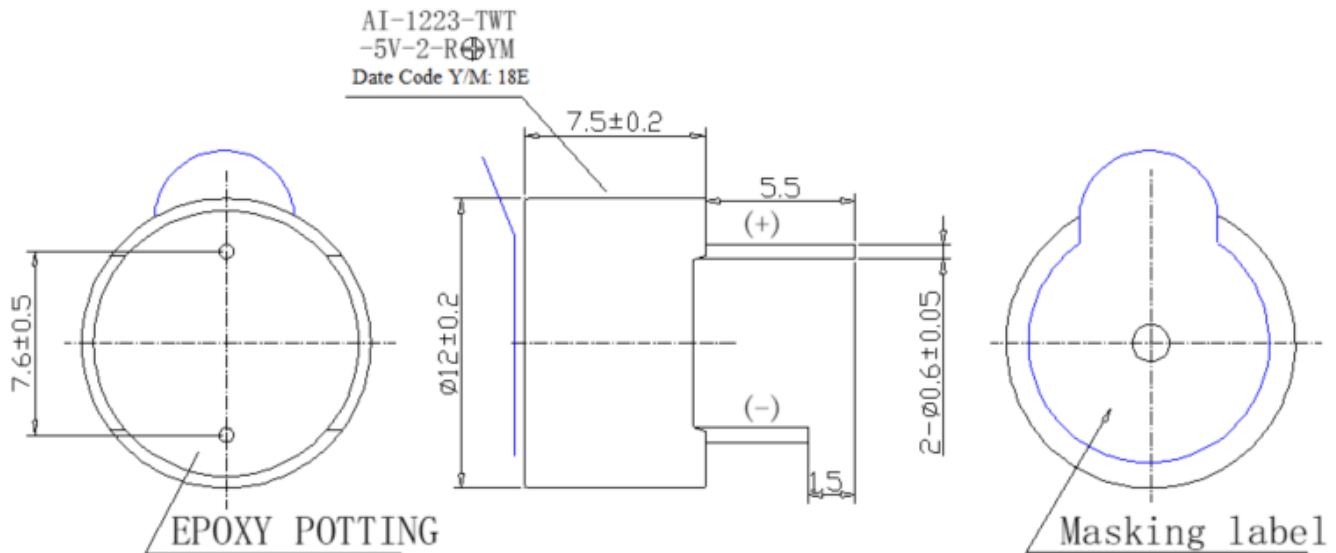


Reliability Testing

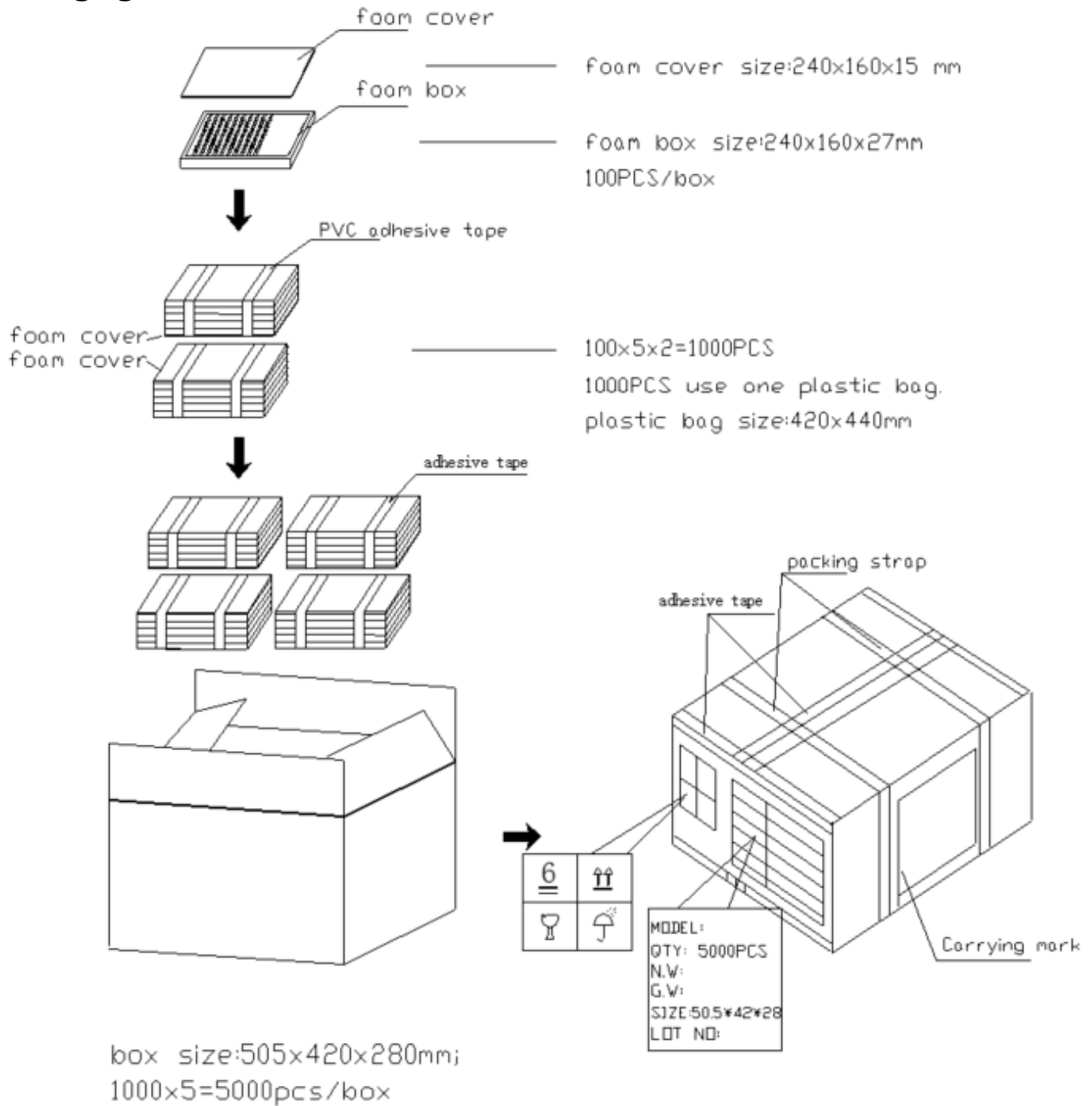
Type of Test	Test Specifications
High Temperature Test	96 hours at $+80\pm 2^{\circ}\text{C}$, then rest at room temperature for 2 hours without applying power.
Low Temperature Test	96 hours at $-40\pm 2^{\circ}\text{C}$, then rest at room temperature for 2 hours without applying power.
Humidity Test	96 hours at $+40\pm 2^{\circ}\text{C}$ with relative humidity at 95% then rest at room temperature for 2 hours without applying power.
Temperature Cycle Testing	<p>Complete the test above for 5 cycles without applying power. Then expose to room temperature for 2 hours before testing.</p>
Vibration Test	<p>Test each X,Y,Z direction for 2 hours (6 hours total)</p>
Drop Test	Drop from 100cm onto the surface of a 1cm thick wooden board

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

Dimensions



Packaging



Specification Revisions

Revision	Description	Date	Approved
-	Released From Engineering	08/05/2005	-
A	Revised Dimensions and Style	11/28/2005	BR
B	Revised to Inventor 3D Drawing Template	11/12/2007	BR
C	Update Spec Format, Add details for Reliability, Packaging, etc.	06/26/2024	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.