



PUIaudio



Data Sheet

AT-2510-TWT-2-R

Features:

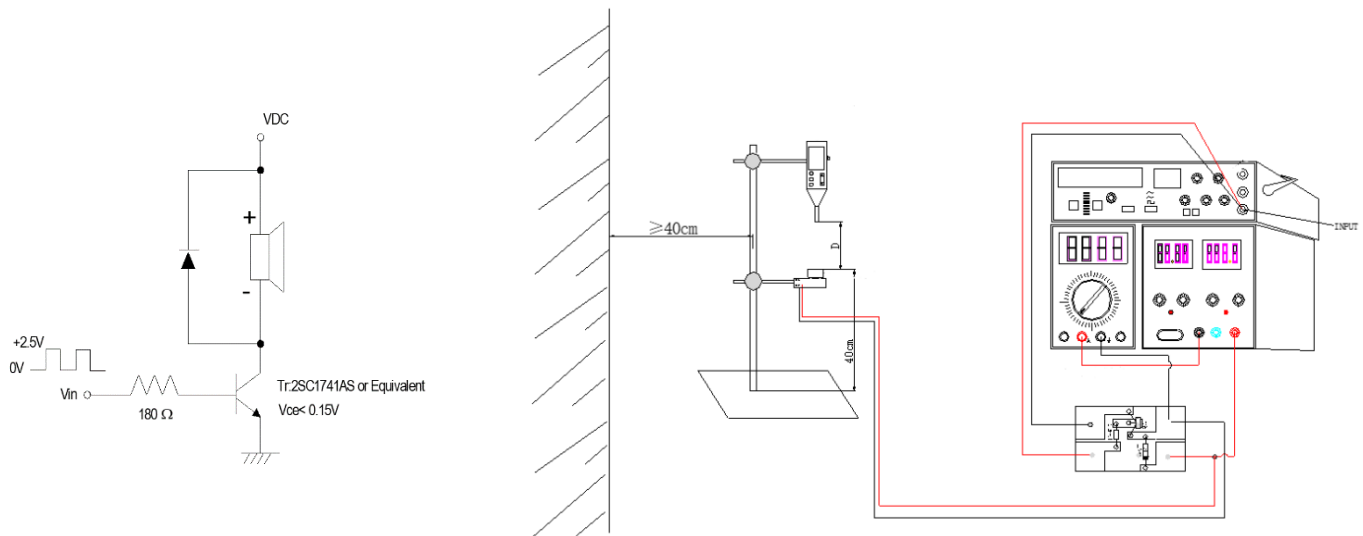
- 12Vpk, 1kHz Magnetic Transducer
- Pin Type
- Wave Solder and Washing Allowed

Specifications

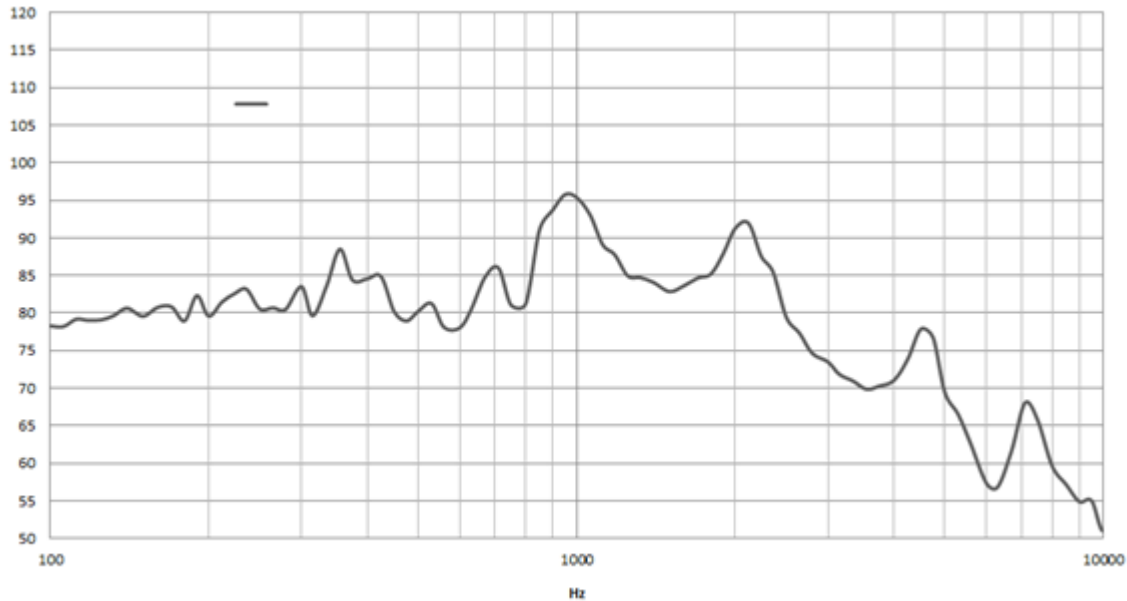
Parameters	Values	Units
Rated Voltage	12	V0-p
Operating Voltage Range	8 ~ 14	V0-p
Current Draw at Rated Voltage	55	mA
Coil Resistance	120 ± 15	Ohms
Minimum SPL @ 10cm	85	dBA
Resonant Frequency	1000 ± 250	Hz
Housing Material	NORYL	-
Terminal Material	Sn Plated Copper	-
Weight	10	Grams
Acceptable Soldering 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, 12V0-p, 1000Hz square wave)



Typical Frequency Response (12Vpk, 10cm)

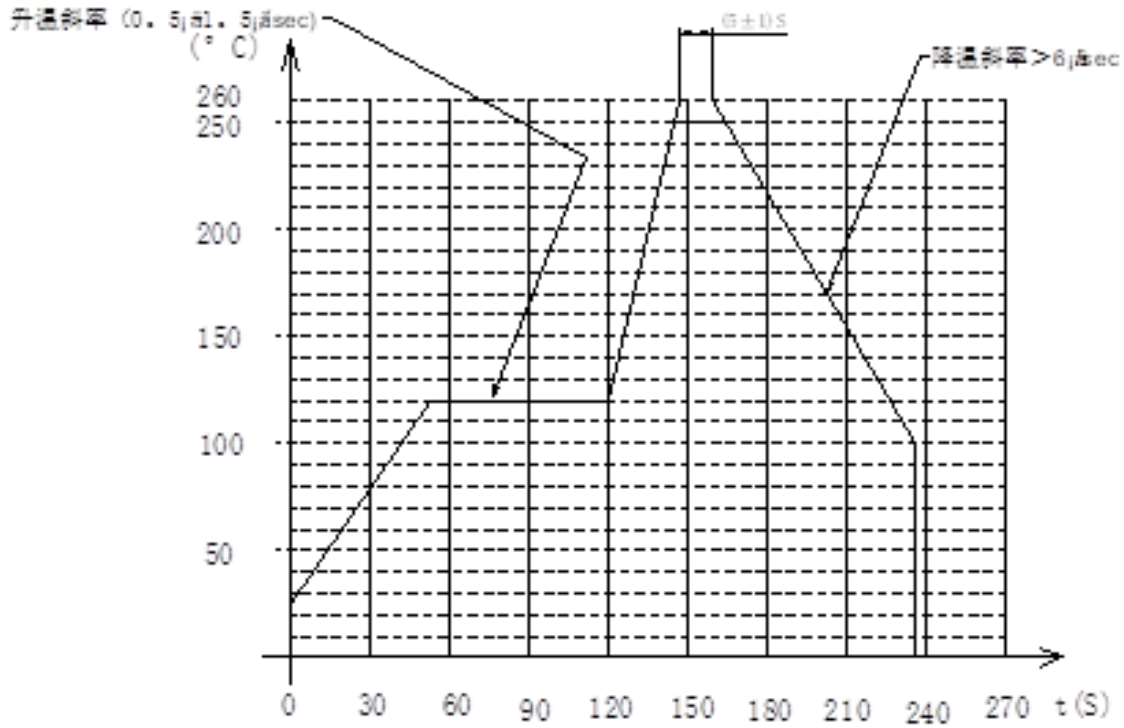


Reliability Testing

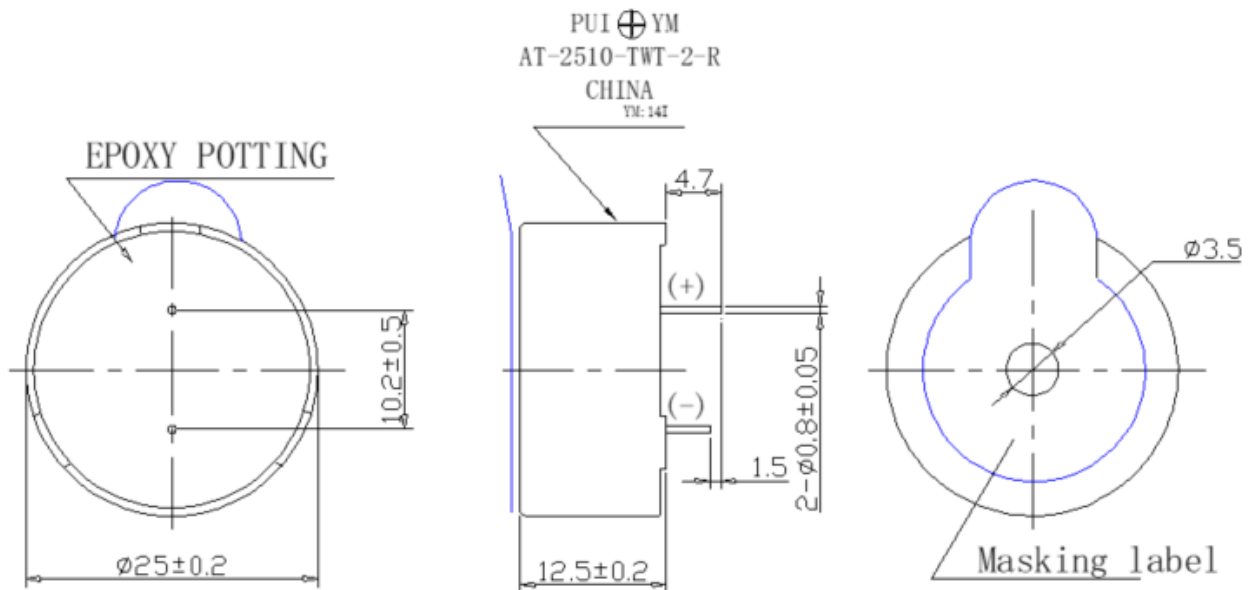
Type of Test	Test Specifications
High Temperature Test	96 hours at +85°C±2°C then rest at room temperature for 2 hours without applying power
Low Temperature Test	96 hours at -40°C±2°C then rest at room temperature for 2 hours without applying power
Humidity Test	96 hours at +40°C±2°C with relative humidity at 90-96% then rest at room temperature for 2 hours without applying power
Temperature Cycle Testing	<p>Test for 5 cycles without applying power, then expose to room temperature for 2 hours</p>
Vibration Test	<p>In X,Y,Z directions for 2 hours each (6 hours total)</p>
Drop Test	Drop a piece from a height of 1m to the surface of a 10mm thick board, drop the piece on the X, Y, Z axis

After these tests, the piece should test within ± 5dB of the original SPL

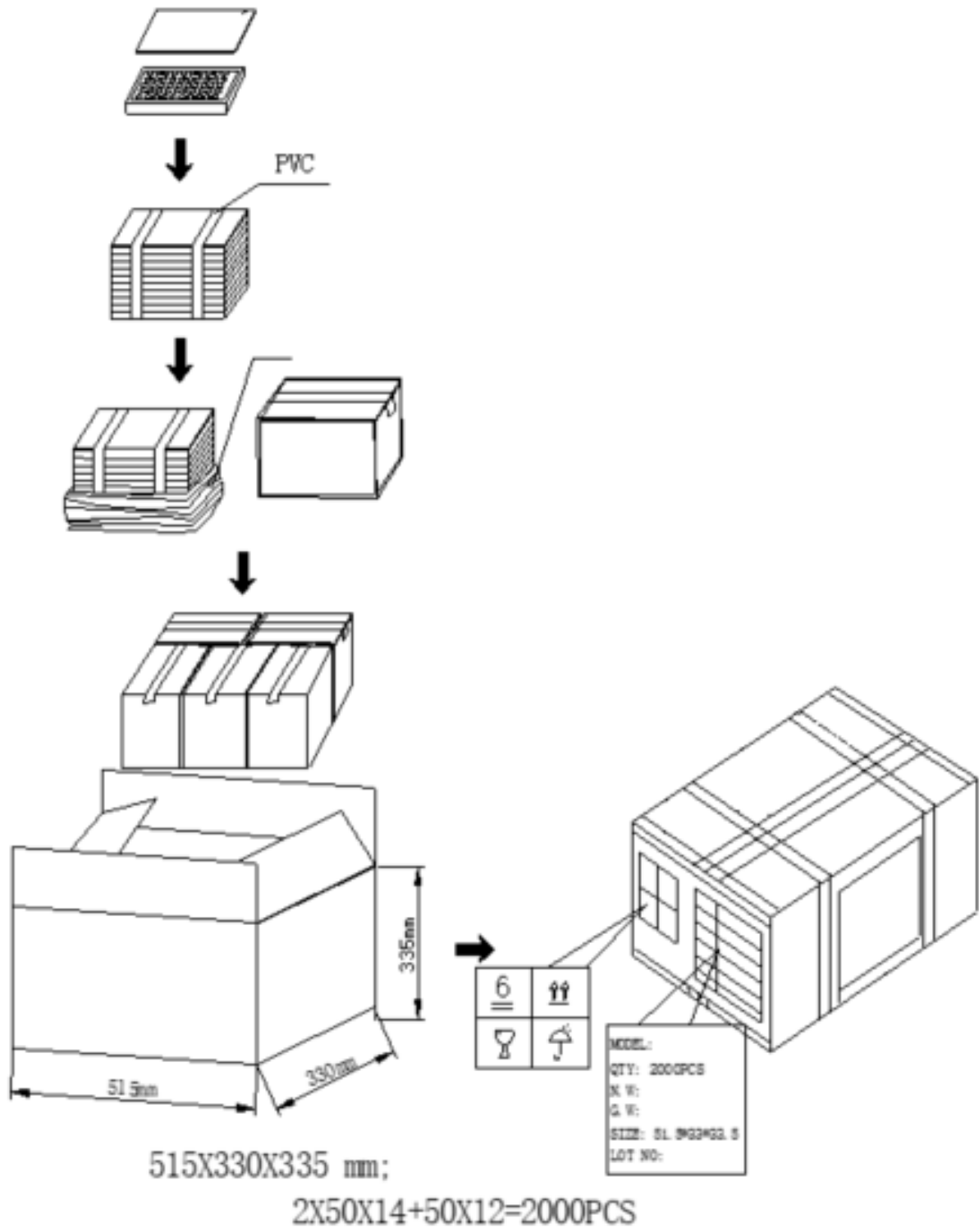
Recommended Wave Solder Profile



Dimensions



Packaging



Specifications Revisions

Revision	Description	Date	Approved
-	RELEASED FROM ENGINEERING	11/11/2014	-
A	Update Spec Format, Add details for Reliability, Packaging, etc. Revised Resonant Frequency and Temperature Ranges	11/26/2024	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.