



PUI audio



Data Sheet

AT-1224-TWT-5V-2-R

Features:

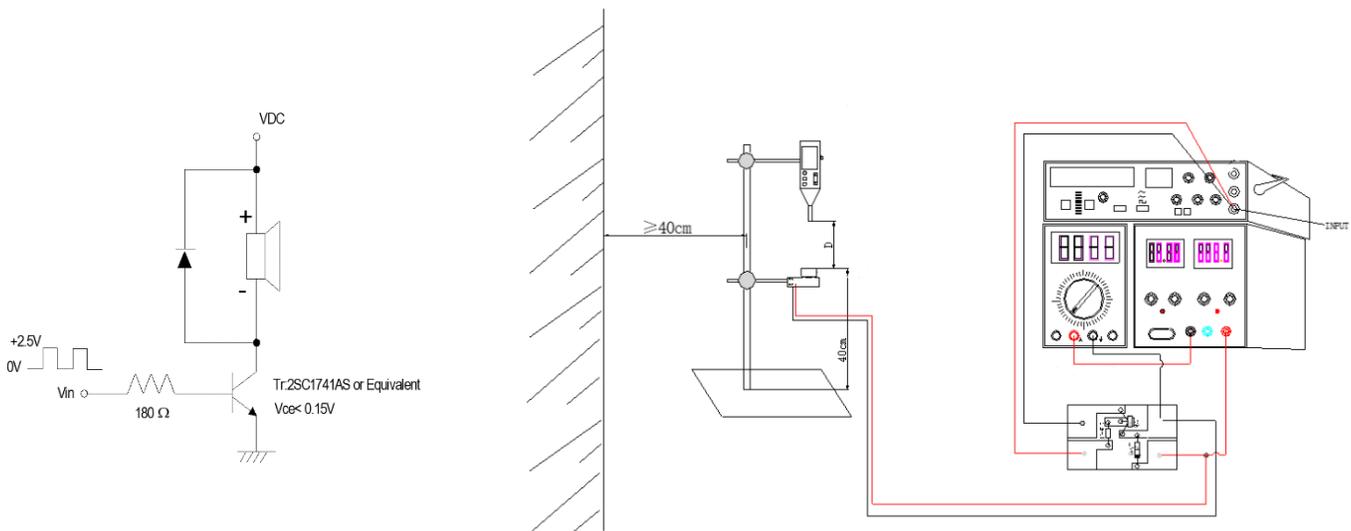
- 5V0-pk, 2400 Hz Magnetic Transducer
- Pin Type
- Wave Solder and Washing Allowed

Specifications

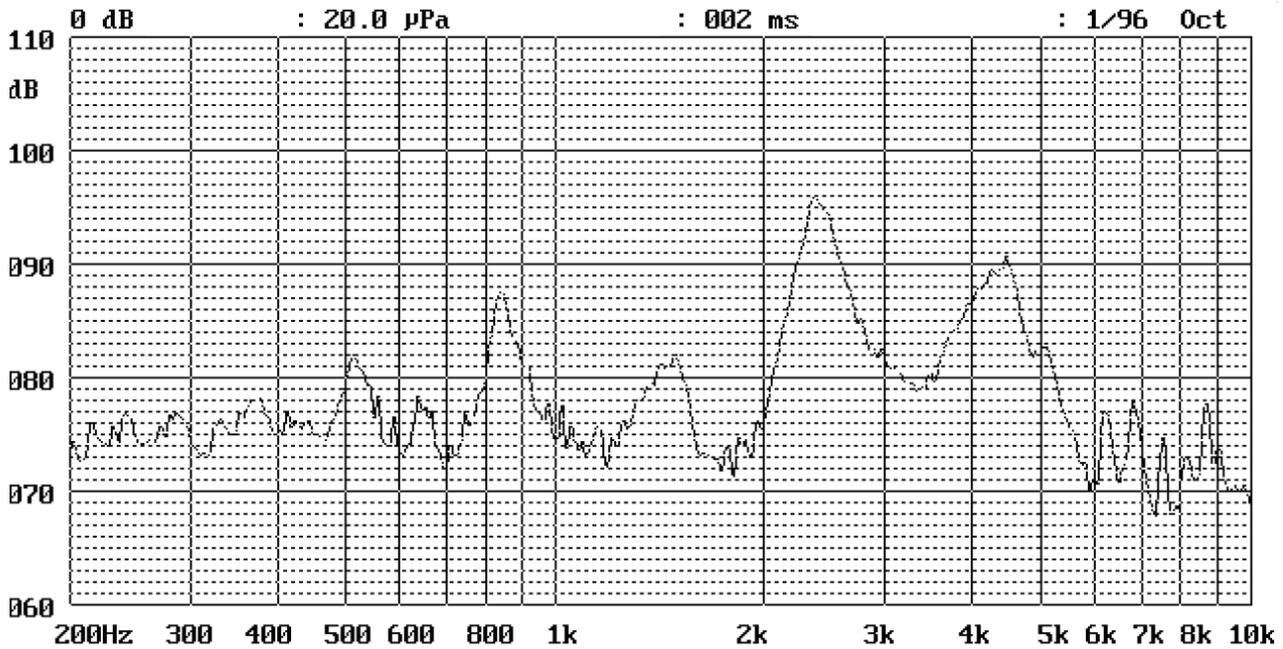
Parameters	Values	Units
Rated Voltage	5	V0-p
Operating Voltage Range	3 ~ 7	V0-p
Current Draw at Rated Voltage	40(Max.)	mA
Coil Resistance	47 ± 7	Ohms
Minimum SPL @ 10cm	87	dBA
Resonant Frequency	2,400 ± 500	Hz
Housing Material	PBT	-
Terminal Material	Sn Plated Brass	-
Weight	2	Grams
Acceptable Soldering Methods	Hand Solder, Wave Solder	-
Environmental Compliances	RoHS/REACH	-
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-30 ~ +80	°C

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

Standard Test Fixture (Distance: 10cm, 5 V0-p, 2400 Hz square wave)



Typical Frequency Response (5Vpk square wave sweep, 10cm)

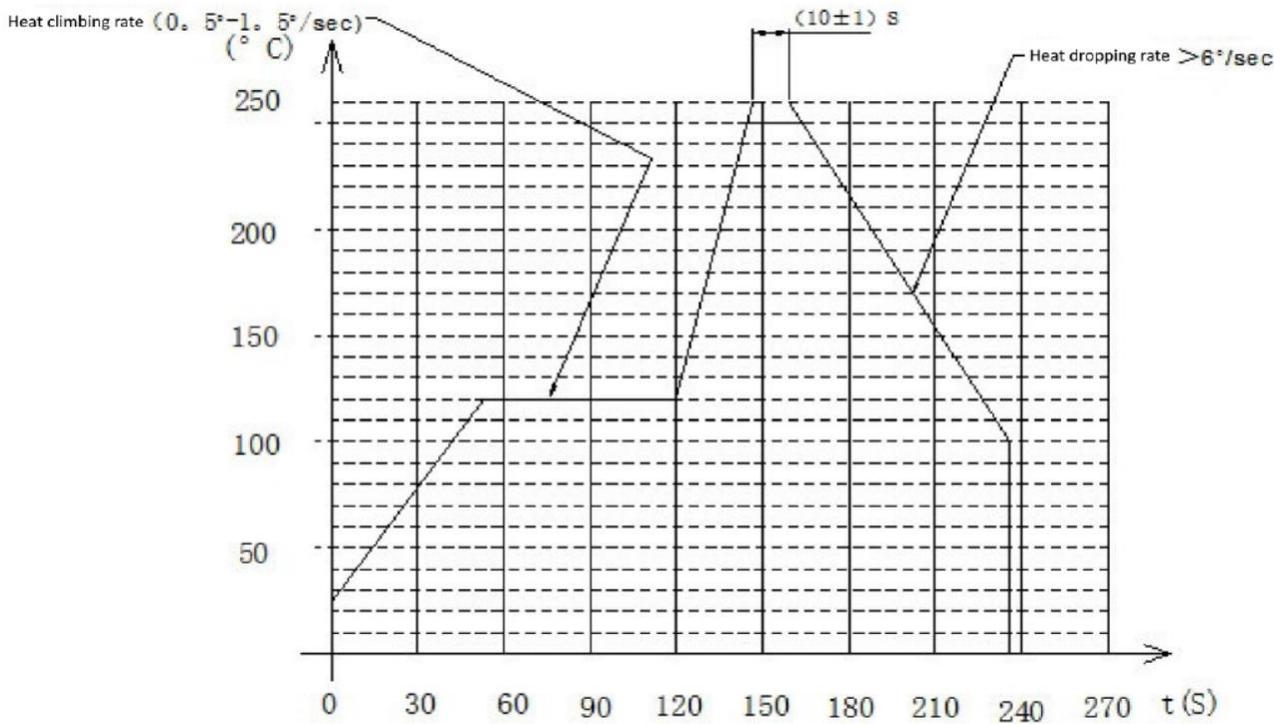


Reliability Testing

Type of Test	Test Specifications
High Temperature Test	96 hours at 85°C. Rest for 2 hours.
Low Temperature Test	96 hours at -40°C. Rest for 2 hours.
Humidity Test	96 hours at 40°C with relative humidity at 90-95%. Rest for 2 hours.
Temperature Cycle Testing	Subject part to 5 cycles of the following test.
Vibration Test	Applied vibration amplitude 1.5mm with 10-55Hz band of vibration to each XYZ direction for 2 hours.
Drop Test	Drop onto 4cm thick wooden board from height of 75cm.

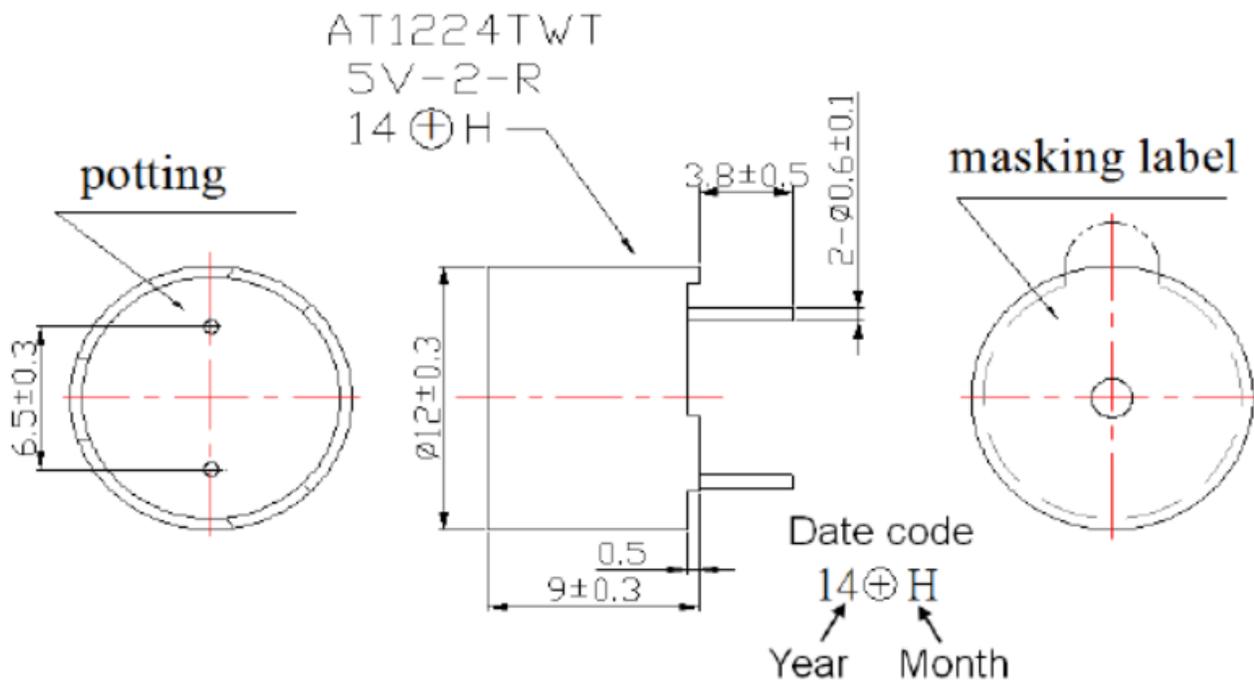
After tests, part SPL shall be within ± 10 dB.

Recommended Wave Solder Profile

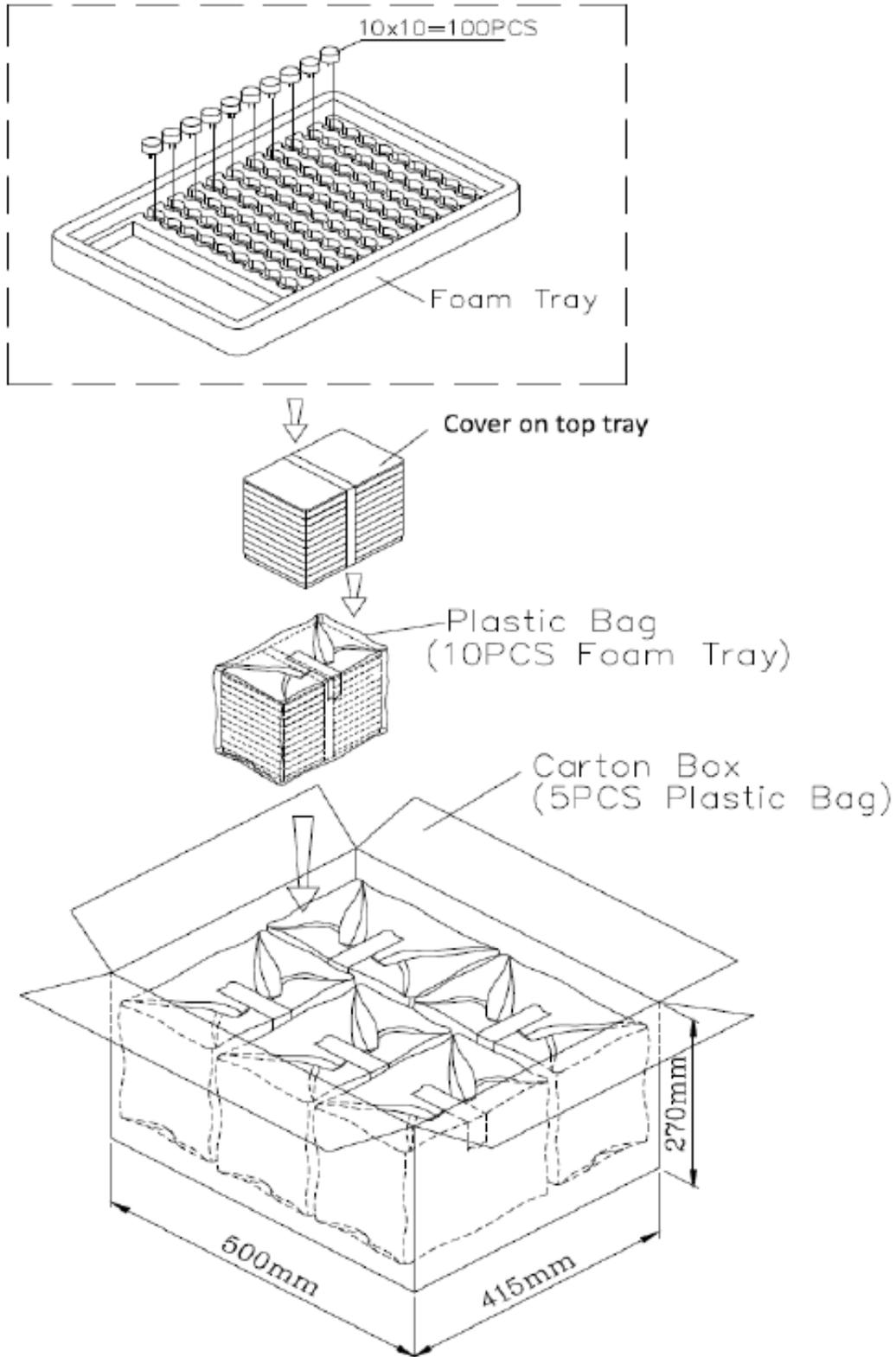


*Manual soldering temperature 350C, < 3 seconds

Dimensions



Packaging



Foam Tray	240mmx160mmx30mm	10x10PCS=100PCS
Plastic Bag		10x100PCS=1000PCS
Carton Box	500mmx415mmx270mm	5x1000PCS=5,000PCS

Specifications Revisions

Revision	Description	Date	Approved
-	RELEASED FROM ENGINEERING	07/24/2014	-
A	REVISED OPERATING TEMPERATURE	11/26/2018	ML
B	CHANGED VOLTAGE FROM VP-P TO V0-P	01/15/2019	MV
C	Update Spec Format, Add Details for Reliability, Packaging, etc.	10/15/2024	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.