

Data Sheet

AI-1027-TWT-5V-HT-R

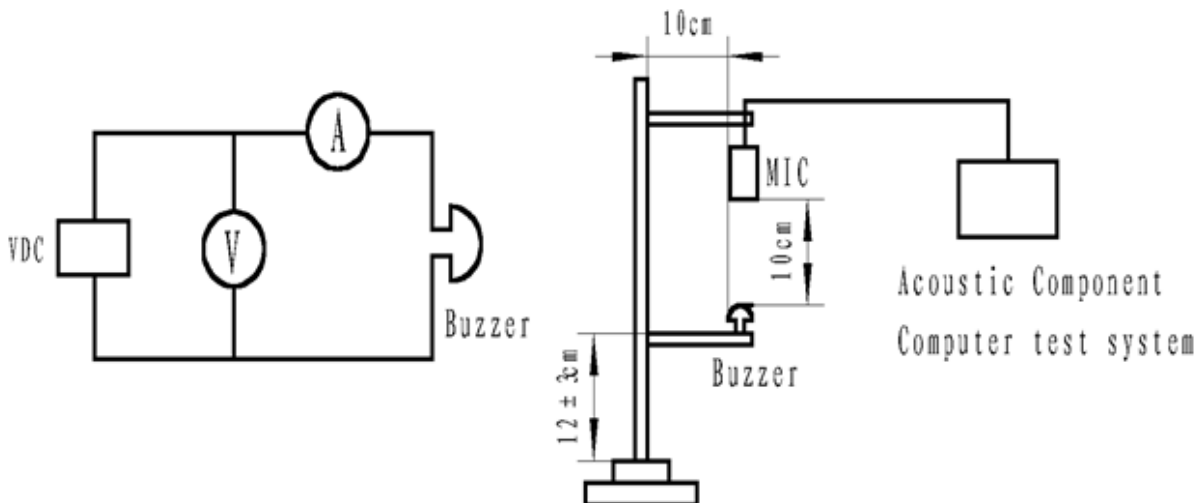
PUI Audio's **High-Temp** line of products is designed with ultra-wide operating temperatures. The **AI-1027-TWT-5V-HT-R** is built for high output at 2700 Hz in a small package.

- Light weight of only 1 gram
- Low current draw of less than 30mA with 5 VDC input
- 85 dB, 2700 Hz output at 10cm

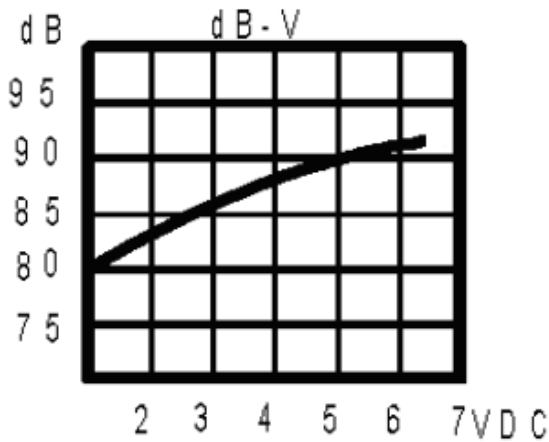
### Specifications

Parameters	Values	Units
Rated Voltage	5	VDC
Operating Voltage Range	3 ~ 6.5	VDC
Current Draw at Rated Voltage	≤30	mA
Minimum SPL @ 10cm	≥85	dBA
Resonant Frequency	2700±300	Hz
Housing Material	PBT	-
Weight	1	Grams
Acceptable Soldering Methods	Hand Solder, Wave Solder	See page 3 for wave solder information
Environmental Compliances	RoHS	-
Storage Temperature	-40 ~ +90	°C
Operating Temperature	-40 ~ +85	°C

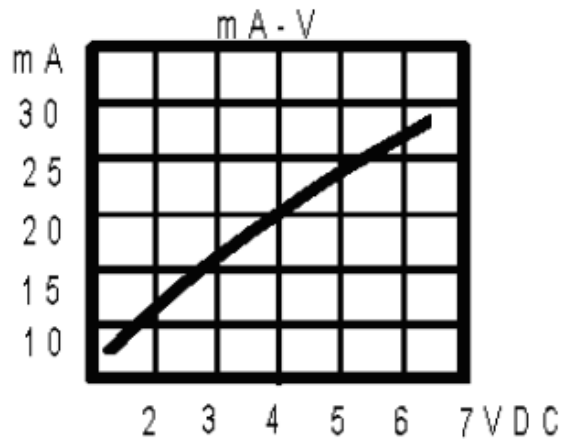
### Measurement Method



### Typical SPL vs Input Voltage



### Typical Current Draw vs Voltage

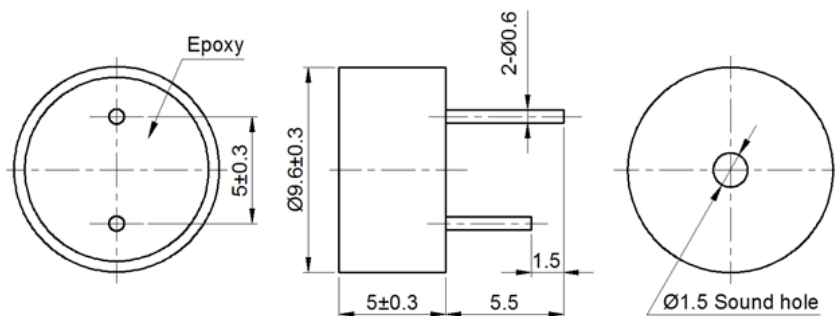


### Reliability Testing

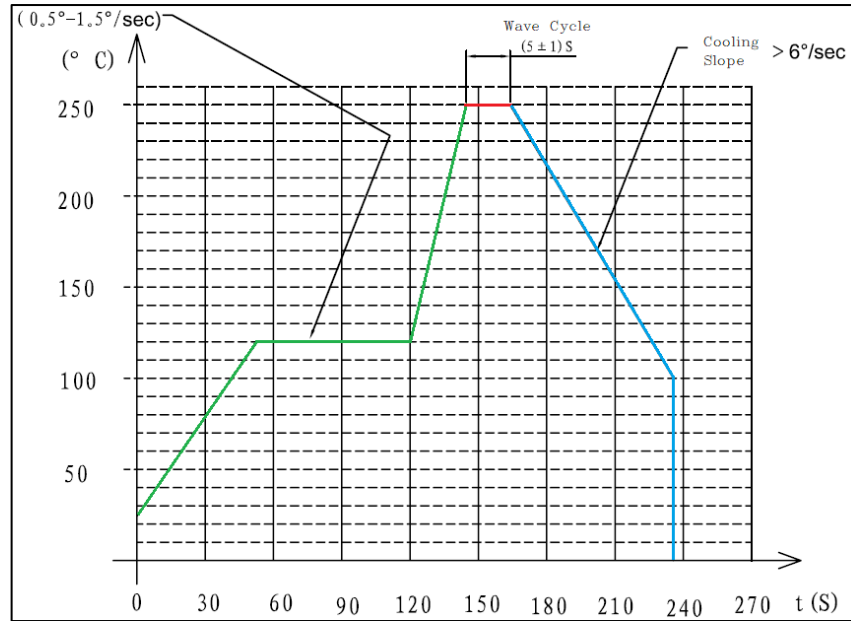
Type of Test	Test Specifications
High Temperature Test	+90±2°C, 96HRS
Low Temperature Test	-40±2°C, 96HRS
Humidity Test	40±2°C, 90~95% RH, 96HRS
Temperature Cycle Testing	5 cycles with 1 cycle consisting of: -40±2°C, 30minutes Room temp., 15 minutes +90±2°C, 30 minutes Room temp., 15 minutes
Vibration Test	Test part in the directions of X, Y, and Z (total 0.5 hours). To-and-fro sweep time (from 10 to 55 Hz and then from 55 to 10 Hz) under single amplitude of 1.0mm is 1 minute.
Drop Test	Drop 3 times from a height of 70cm onto the surface of a 10mm thick wooden board

All specifications must be satisfied after testing.

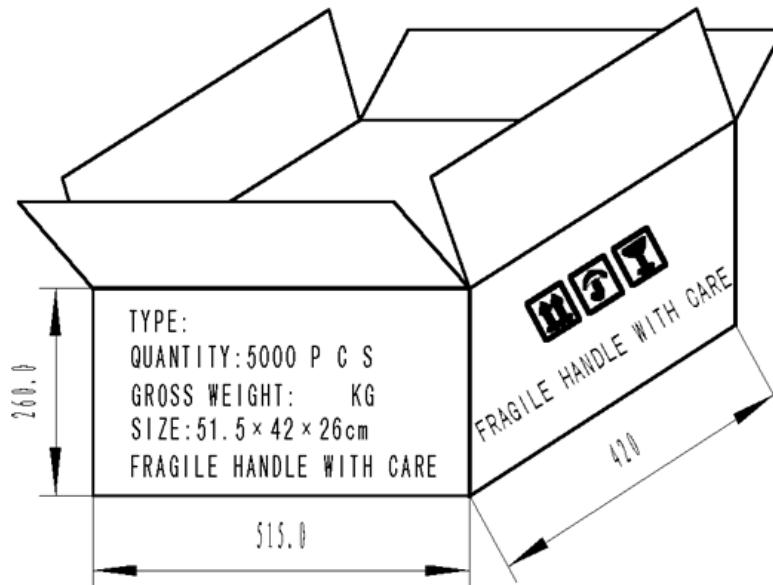
### Dimensions (Tolerance: ±0.5mm unless specified otherwise. Positive pin is 5.5mm in length)



## Recommended Wave Solder Profile



## Packaging



### NOTES:

- 1.100 PCS per box
- 2.Total 50 boxes per carton
- 3.Total 5000 PCS carton