

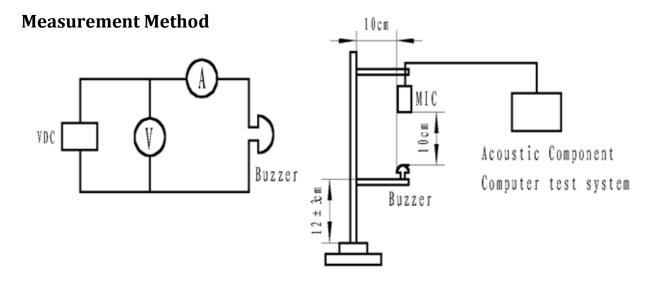
Data Sheet

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

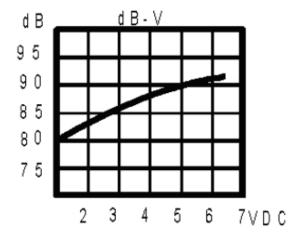
Parameters	Values	Units	
Rated Voltage	5	VDC	
Operating Voltage Range	3 ~ 6.5	VDC	
Current Draw at Rated Voltage	≤30	mA	
Minimum SPL @ 10cm	≥85	dBA	
Resonant Frequency	2700±300	Hz	
Housing Material	PBT	-	
Weight	1	Grams	
Acceptable Soldering Methods	Hand Solder, Wave Solder	See page 3 for wave solder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

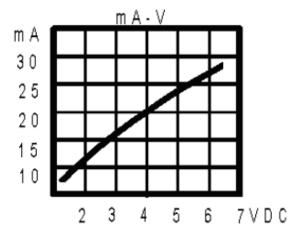


Specifications

Typical SPL vs Input Voltage

Typical Current Draw vs Voltage



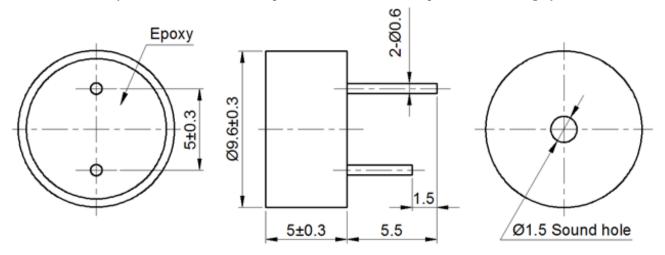


Reliability Testing

Type of Test	Test Specifications
	+90±2°C, 96HRS
High Temperature Test	
	-40±2°C, 96HRS
Low Temperature Test	
Humidity Test	40±2°C, 90~95% RH, 96HRS
	5 cycles with 1 cycle consisting of:
	-40±2°C, 30minutes
	Room temp., 15 minutes
	+90±2°C, 30 minutes
Temperature Cycle Testing	Room temp., 15 minutes
	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
Vibration Test	amplitude of 1.0mm is 1 minute.
	Drop 3 times from a height of 70cm onto the
Drop Test	surface of a 10mm thick wooden board

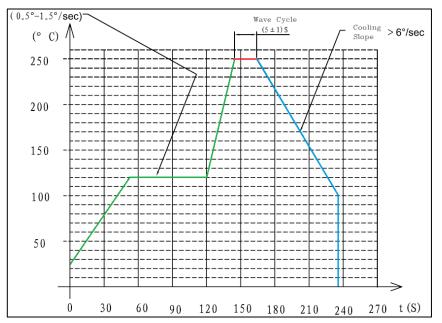
All specifications must be satisfied after testing.

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

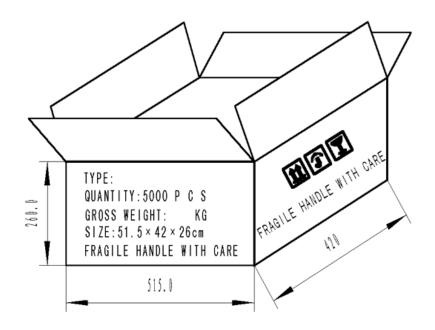


*Wave Solder Allowed, Washing Not Allowed

Recommended Wave Solder Profile



Packaging



NOTES:

1.100 PCS per box

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

Specifications Revisions

Revision	Description	Date	Approved
А	RELEASED FROM ENGINEERING	03/23/2020	MV
В	Update Logo and Company Footer, Add Washing Not Allowed Statement	06/18/2024	ML

Note:

- 1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are ± 0.5 mm and angles are $\pm 3^{\circ}$.
- 2. Specifications subject to change or withdrawal without notice.