

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

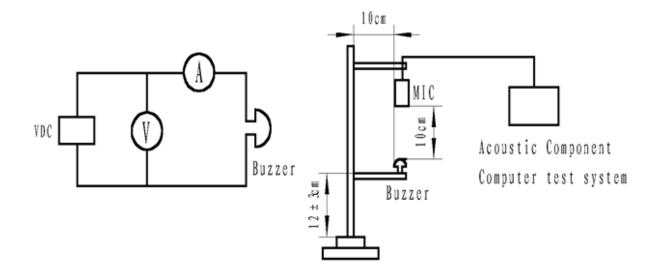
PUI Audio's **High-Temp** line of products is designed with ultra-wide operating temperatures. The **AI-1027-TWT-5V-HT-R** is built for high output at 2700 Hz in a small package.

- 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

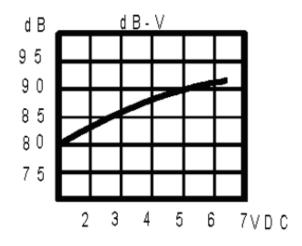
Parameters	Values	Units
Rated Voltage	5	VDC
Operating Voltage Range	3 ~ 6.5	VDC
Current Draw at Rated Voltage	≤30	mA
Minimum SPL @ 10cm	≥85	dBA
Resonant Frequency	2700±300	Hz
Housing Material	PBT	-
Weight	1	Grams
	Hand Solder, Wave Solder	See page 3 for wave solder
Acceptable Soldering Methods		information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

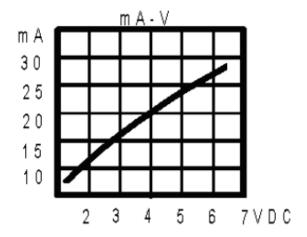
Measurement Method



Typical SPL vs Input Voltage

Typical Current Draw vs Voltage



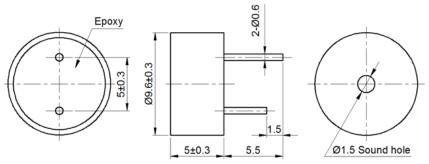


Reliability Testing

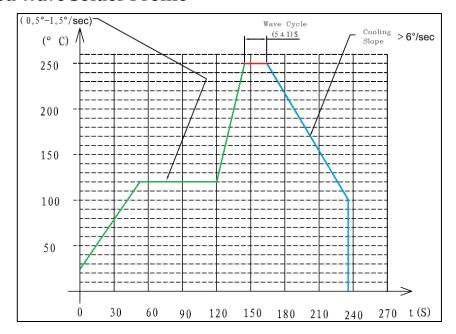
Type of Test	Test Specifications	
1,000 01 1000	+90±2°C, 96HRS	
High Temperature Test	. 7022 6, 701116	
	-40±2°C, 96HRS	
Low Temperature Test		
Humidity Test	40±2°C, 90~95% RH, 96HRS	
	5 cycles with 1 cycle consisting of:	
	-40±2°C, 30minutes	
	Room temp., 15 minutes	
	+90±2°C, 30 minutes	
Temperature 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.

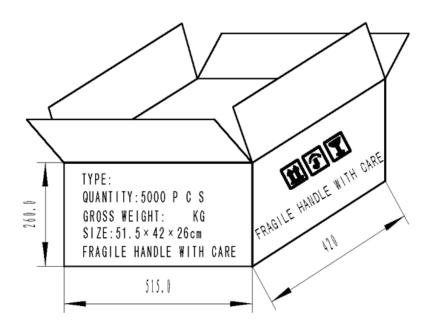
$\textbf{Dimensions} \; (\textbf{Tolerance: } \pm 0.5 \textbf{mm} \; \textbf{unless specified otherwise. Positive pin is 5.5 \textbf{mm} \; \textbf{in length})$



Recommended Wave Solder Profile



Packaging



NOTES:

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

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Specifications Revisions

Revision	Description	Date
-	Released from Engineering	3/23/20

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.