

Data Sheet AI-1450-TWT-WP-R

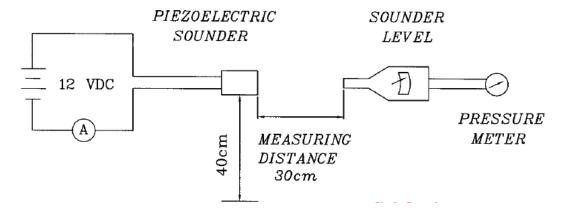
Features:

- Piezo Indicator
- 12VDC rated, 5kHz
- Top-Firing Thru-Hole Type
- IP67 Rated

Specifications

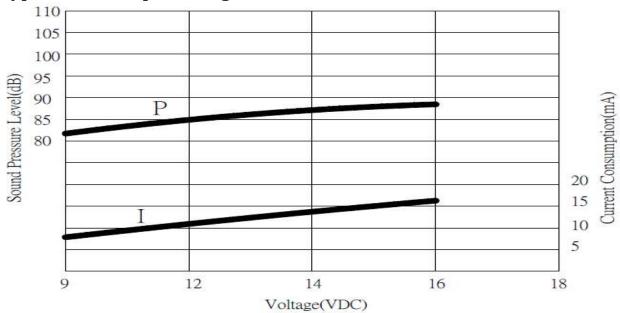
Parameters	Values	Units
Rated Voltage	12	VDC
Operating Voltage Range	9 ~ 16	VDC
Current Draw at Rated Voltage	35	mA
Minimum SPL @ 30cm	80	dBA
Resonant Frequency	5,000 ± 500	Hz
Tone or Pulse Rate	Continuous	-
Housing Material	PBT	-
Terminal Material	Au Plated Copper	-
Weight	2.46	Grams
Acceptable Soldering Methods	Hand Solder	-
Environmental Compliances	RoHS/REACH	7c-1
Operating Temperature	-30 ~ +85	°C
Storage Temperature	-40 ~ +95	°C
IP Rating	IP67	-

Measurement Method



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Typical SPL vs Input Voltage



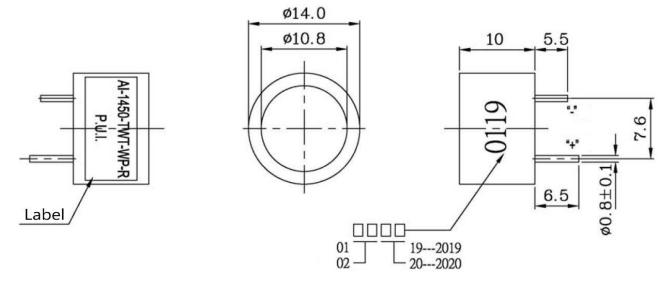
Reliability Testing

Type of Test	Test Specifications		
High Temperature Test	Test chamber for 240 hours at +95°C, then rested at room temperature for 4 hours.		
Low Temperature Test	Test chamber for 240 hours at -40°C, then rested at room temperature for 4 hours.		
Humidity Test	Test chamber for 240 hours at +40°C with relative humidity at 90±5%, then rested at room temperature for 4 hours.		
Temperature Cycle Testing	Test repeated 5 times, then rest at room temperature for 4 hours.		
Vibration Test	1.5mm amplitude vibration with 10~55Hz band of vibration frequency for 2 hours. Repeat test in X, Y, Z directions (total 6 hours).		
Solderability Test	Lead terminals immersed in rosin for 5 seconds, then in solder bath of +270±5°C for 3±1 seconds.		
Drop Test	Free drop a unit from the height 75cm to the surface of 40mm thick board, three times. Repeat test in X, Y, Z directions (total 9 times).		
Load Test	Apply rated voltage for 48 hours continuously at +70°C. Apply a duty cycle of 1 minute on, 1 minute off 5000 times minimum, at rated voltage and room temperature (+25±3°C).		

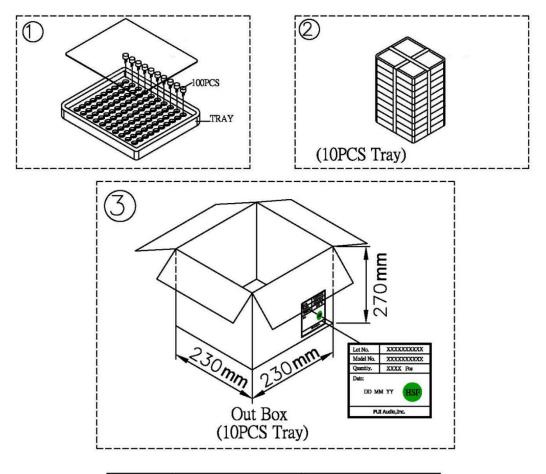
Measurements should be $\pm 10\%$ compared with initial after testing. SPL should be ± 10 dB.

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Dimensions



Packaging



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Specifications Revisions

Revision	Description	Date
Α	RELEASED FROM ENGINEERING	7/6/2021
В	REVISED TEMPERATURE RATINGS	11/19/2021

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.