



Data Sheet

AI-1441-TWT-12V-R

Features:

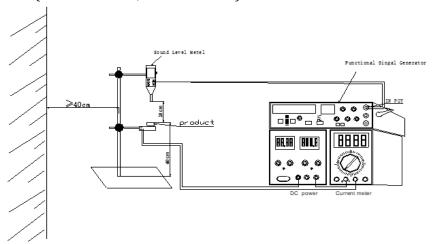
- Piezo Indicator
- 24VDC rated, 4000Hz
- Thru-Hole Type
- · Wave Solder and Washing NOT Allowed

Specifications

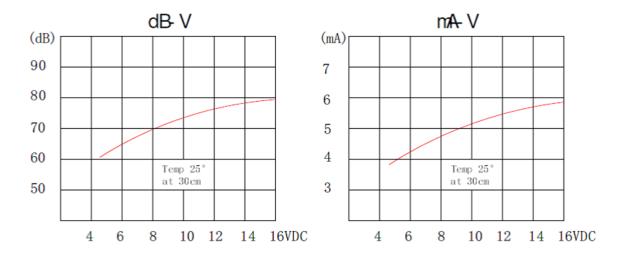
Parameters	Values	Units	
Rated Voltage	12	VDC	
Operating Voltage Range	3 ~ 16	VDC	
Current Draw at Rated Voltage	7	mA	
Minimum SPL @ 10cm	80		
Minimum SPL @ 30cm	70	dBA	
Resonant Frequency	4,100 ± 500	Hz	
Tone or Pulse Rate	Continuous	<u>-</u>	
Housing Material	PPO	-	
Terminal Material	Au Plated Brass	-	
Weight	1	Grams	
Acceptable Soldering Methods	Hand Solder	Iron Temp 350C, Solder time <3 seconds	
Environmental Compliances	RoHS/REACH	Ex. 7c-1	
Storage Temperature	-30 ~ +80	°C	
Operating Temperature	-20 ~ +70	°C	

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

Standard Test Fixture (Distance=10cm, Power=12VDC)



Typical SPL vs Input Voltage

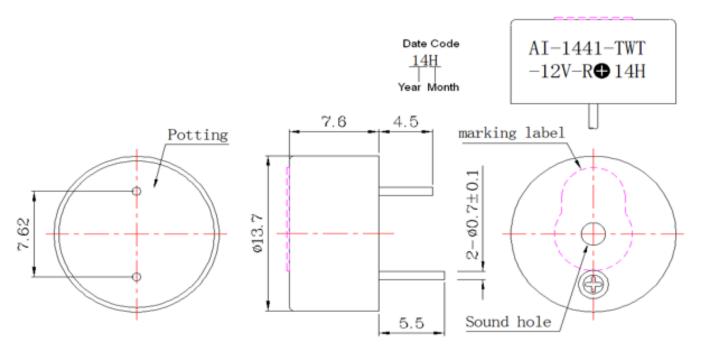


Reliability Testing

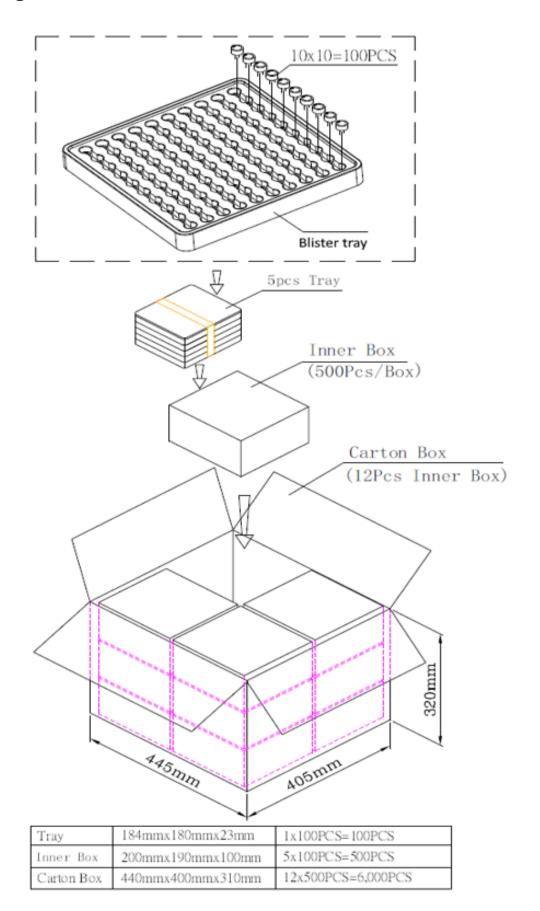
Reliability Testing				
Type of Test	Test Specifications			
High Temperature Test	96 hours at 80°C. Let stand in room condition for 2 hours before testing.			
Low Temperature Test	96 hours at -30°C. Let stand in room condition for 2 hours before testing.			
	96 hours at 40°C with relative humidity at 90-95%. Let stand in room condition for 2 hours before testing.			
Humidity Test				
Temperature Cycle Testing	+70°C +25°C +25°C +25°C +25°C -20°C 0.5 hr 0.5 0.25 0.5 0.5 0.25 Subject part to 5 cycles of test as shown above.			
Vibration Test	Apply vibration amplitude of 1.5mm with 10-55Hz band vibration frequency to each XYZ directions for 2 hours.			
Drop Test	Drop onto wooden board 4cm thick in any direction for 6 times, at height of 75cm.			

Part shall test within ±10dB SPL.

Dimensions



Packaging



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Specifications Revisions

Revision	Description		Approved
-	RELEASED FROM ENGINEERING	06/27/2014	-
Α	Update Spec Format, Add Details for Reliability, Packaging, Etc.	08/05/2024	ML

Note:

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