



Data Sheet AI-2429-TWT-2-R

Features:

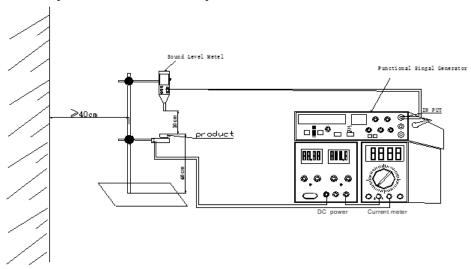
- Piezo Indicator
- 12VDC rated, 2900Hz
- Top-Firing Thru-Hole Type
- Wave Solder NOT Allowed, Washing Allowed

Specifications

Parameters	Values	Units	
Rated Voltage	12	VDC	
Operating Voltage Range	8 ~ 16	VDC	
Current Draw at Rated Voltage	10(Max.)	mA	
Minimum SPL @ 10cm	95	dBA	
Resonant Frequency	2,900 ± 500	Hz	
Tone or Pulse Rate	Continuous	-	
Housing Material	ABS	-	
Terminal Material	Au Plated Phosphor Bronze	-	
Weight	4.5	Grams	
Acceptable Soldering Methods	Hand Solder Only	Temp 350C, Time < 3 seconds	
Environmental Compliances	RoHS/REACH	7c-1	
Storage Temperature	-40 ~ +95	°C	
Operating Temperature	-30 ∼ +85	°C	

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

Standard Test Fixture (Distance: 10cm, 12VDC)



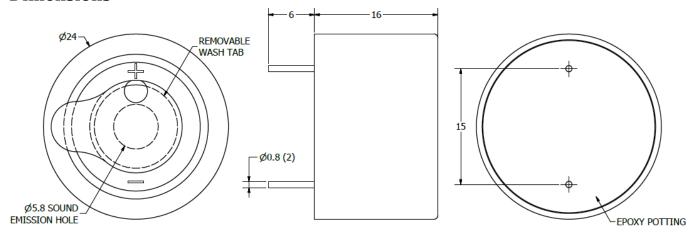
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Reliability Testing

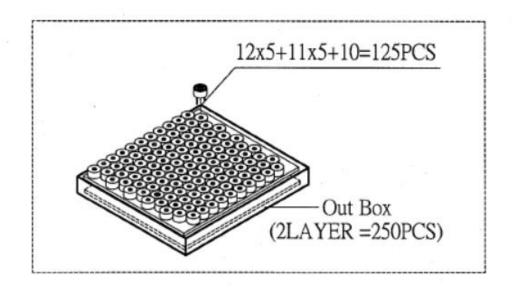
Type of Test	Test Specifications		
High Temperature Test	Test chamber for 240 hours at +95°C, then rested at room temperature for 4 hours.		
Low Temperature Test	Test chamber for 240 hours at -40°C, then rested at room temperature for 4 hours.		
Humidity Test	Test chamber for 240 hours at +40°C with 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).		

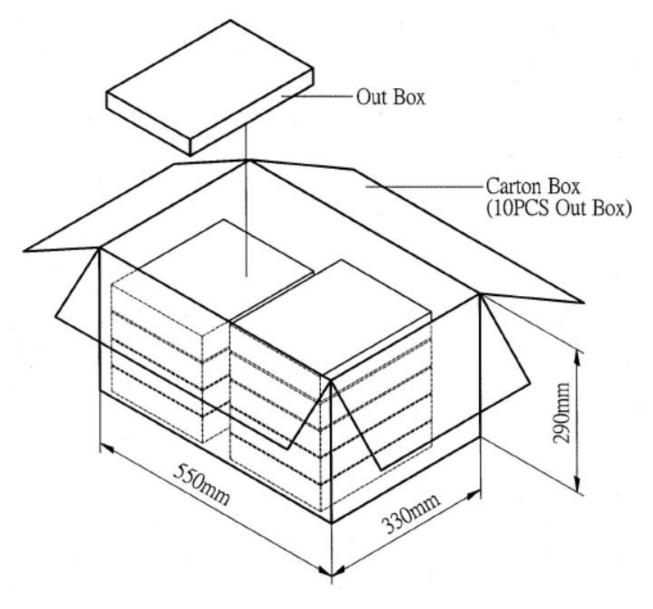
Measurements should be $\pm 10\%$ compared with initial after testing. SPL should be ± 10 dB.

Dimensions



Packaging





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Specifications Revisions

Revision	Description	Date	Approved
-	RELEASED FROM ENGINEERING	09/12/2005	-
Α	REVISED TO INVENTOR 3D DRAWING TEMPLATE	01/28/2008	BR
В	REVISED OPERATING VOLTAGE RANGE	01/04/2019	MV
С	REVISED WEIGHT	02/24/2020	MV
D	Correct Detail for Wave Solder NOT allowed	07/09/2024	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.