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AI-2438-TT-R

Data Sheet

Features:

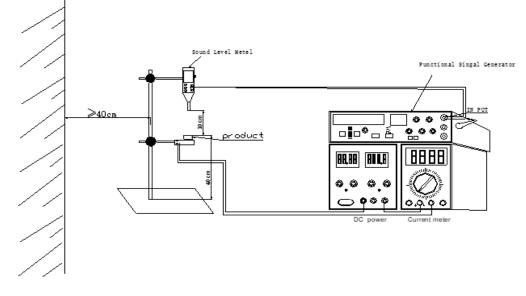
- Piezo Indicator
- 12VDC rated, 3800Hz
- Top-Firing Thru-Hole Type

Specifications

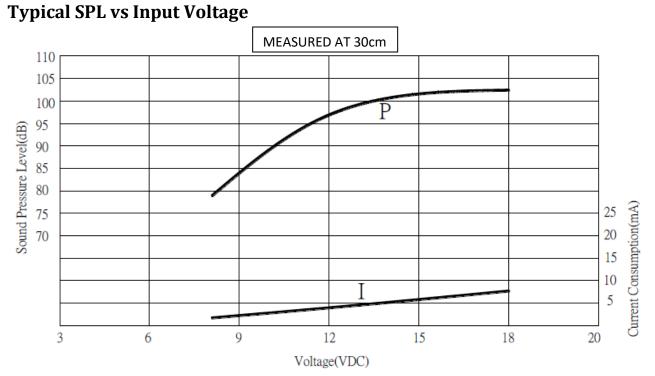
Parameters	Values	Units	
Rated Voltage	12	VDC	
Operating Voltage Range	8~16	VDC	
Current Draw at Rated Voltage	12	mA	
Minimum SPL @ 10cm	95	dBA	
Resonant Frequency	3,800 ± 500	Hz	
Tone or Pulse Rate	Continuous	-	
Housing Material	ABS	-	
Terminal Material	Sn Plated Bronze	-	
Weight	4	Grams	
Acceptable Soldering Methods	Hand Solder	-	
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% ~ 70%)

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



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Reliability Testing

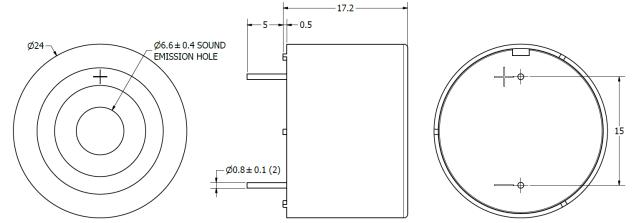
Type of Test	Test Specifications		
	Test chamber for 240 hours at +95°C, then rested at room temperature		
High Temperature Test	for 4 hours.		
	Test chamber for 240 hours at -40°C, then rested at room temperature		
Low Temperature Test	for 4 hours.		
	Test chamber for 240 hours at +40°C with relative humidity at 90±5%,		
Humidity Test	then rested at room temperature for 4 hours.		
Temperature Cycle Testing	+95°C +25°C -40°C -40°C -40°C -5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.25 -3hours 		
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 $+270\pm5^{\circ}$ C for 3 ± 1 seconds.		
Soldering Heat Resistance	Lead terminals immersed up to 1.5mm from indicator body in solder bath of +300±5°C for 3±0.5 seconds or +260±5°C for 10±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).		
	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		
Load Test	rated voltage and room temperature (+25±3°C).		

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

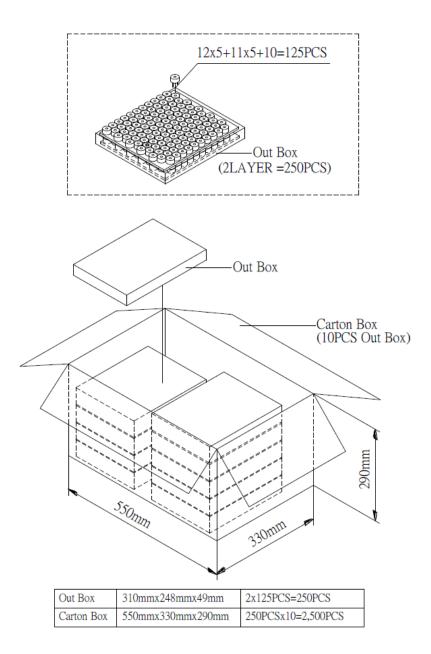
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Dimensions



Packaging



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Specifications Revisions		
Revision	ision Description	
-	RELEASED FROM ENGINEERING	1/5/2006
А	REVISED HEIGHT DIMENSION	10/25/2007
В	REVISED TO INVENTOR 3D DRAWING TEMPLATE & HEIGHT	1/29/2008
С	REVISED RATED CURRENT	9/6/2013
D	REVISED OPERATING VOLTAGE RANGE	1/4/2019

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.