

Data Sheet AI-1224-TWT-12V-R

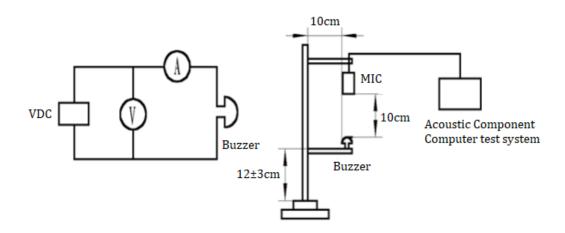
Features:

- Small 12mm diameter X 9.5mm height
- Minimum 88 dB output at 10cm
- Wave Solder and Washing Allowed

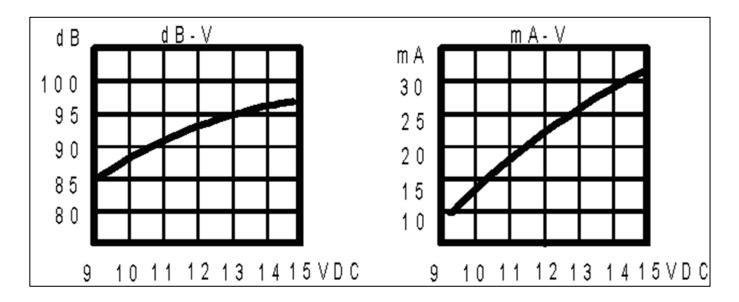
Specifications

Parameters	Values	Units	
Rated Voltage	12	VDC	
Operating Voltage Range	8 ~ 16	VDC	
Current Draw at Rated Voltage	30 Max.	mA	
Minimum SPL @ 10cm	88	dBA	
Resonant Frequency	$2,400 \pm 300$	Hz	
Tone or Pulse Rate	Continuous	-	
Housing Material	PBT	-	
Terminal Material	Sn Plated Copper	-	
Weight	2	Grams	
Acceptable Soldering Methods	Hand Solder, Wave Solder	See page 3 for soldering information	
Environmental Compliances	RoHS/REACH	-	
Storage Temperature	-30 ~ +80	°C	
Operating Temperature	-20 ~ +70	°C	

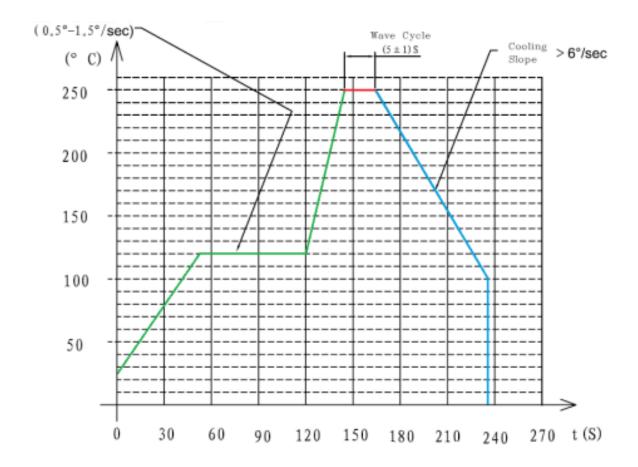
Measurement Method (12VDC, SPL meter spaced at 10cm)



Typical SPL vs Input Voltage



Recommended Soldering Procedure

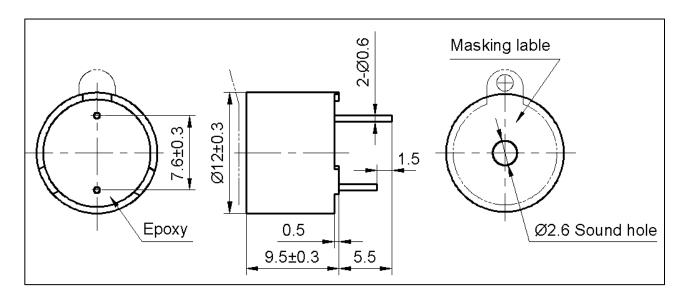


Reliability Testing

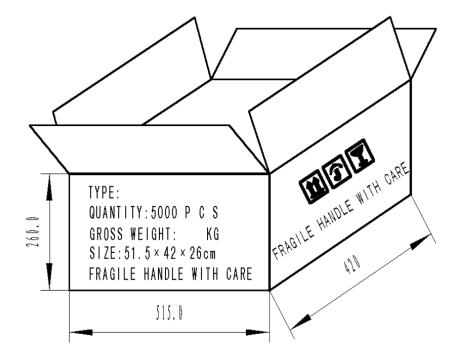
NO ·	ITEM	TESTING CONDITION	VARIANCE AFTER TEST	
1	Humidity	40±5℃, 93(+2/-3)%RH, 96HRS		
2	High temp.	+80±2°C, 96HRS		
3	Low temp.	-30±2°C, 96HRS		
4	Temperature cycling	-30±2°C, 30 minutes room temp. 15 minutes +80±2°C, 30 minutes room temp. 15 minutes 5 cycles	All specifications must be satisfied after the test	
5	Drop test	3 times from height of 70cm onto the sureface of 10mm thick wooden board.		
6	Vibration test	Make the test for the directions of X Y and Z (total 0.5 hours). To-and-fro sweep time (from 10 to 55 Hz and then 55 to 10) under single amplitude of 1.0mm is 1 minute.		
7	Solder heat resistance	The part leads (pins) shall be immersed in molten solder maintained at 250±10°C for a period of 30 seconds.	After the test part shall meet specifications without any degradation in appearance and performance.	

All specifications must be satisfied after the test.

Dimensions



Packaging



NOTES:

- 1. 100 PCS per box
- 2. Total 50 boxes per carton
- 3. Total 5000 PCS carton
- 4. Volume:51.5×42×26cm

Specifications Revisions

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Revision	Description	Date	Approved
Α	RELEASED FROM ENGINEERING	08/28/2018	-
В	Add Detail for Wave Solder and Washing Allowed	07/08/2024	ML

Note:

- 1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are ±0.5mm and angles are ±3°.
- 2. Specifications subject to change or withdrawal without notice.