

Data Sheet AMI-4440-TT-V

Features:

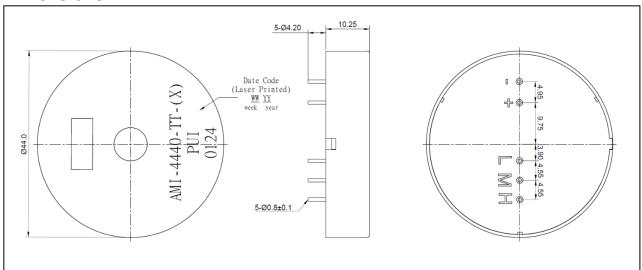
- Piezo Indicator
- IEC 60601-1-8 Compliant Ventilation Tone

Specifications

Parameters	Values	Units	
Rated Voltage	5	VDC	
Operating Voltage Range	3.3 ~ 5	VDC	
Input Peak Current	150	mA	
(Maximum at 5VDC)			
Standby Current	12	mA	
(Maximum at 5VDC)			
Active Current	20	mA	
(Maximum at 5VDC / LMH Tones)			
Minimum SPL	80	dBA	
(Measured at 10cm / 5VDC)			
Typical SPL	80 ~ 90	dBA	
(Measured at 10cm / 5VDC)			
Frequency Range	150 ~ 4000	Hz	
Storage Temperature	-30 ∼ +85	°C	
Operating Temperature	-30 ∼ +85	°C	
Weight	9	Grams	
Housing Material	ABS (black)	-	
Terminal Type	Thru-Hole / Pins	-	
Acceptable Soldering Methods	Hand Solder, Wave Solder	-	
Environmental Compliances	RoHS/REACH	-	
Sound Type	Ventilation	Ventilation IEC60601-1-8 Compliant	

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Dimensions

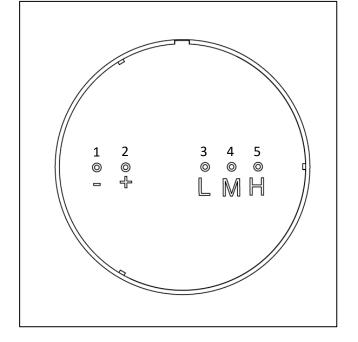


Pin Labeling / Function

Pin	Name	Function	
1	-	Power Supply (-)	
2	+	Power Supply (+)	
3	Low	Low Priority Alarm Control	
4	Medium	Medium Priority Alarm Control	
5	High	High Priority Alarm Control	

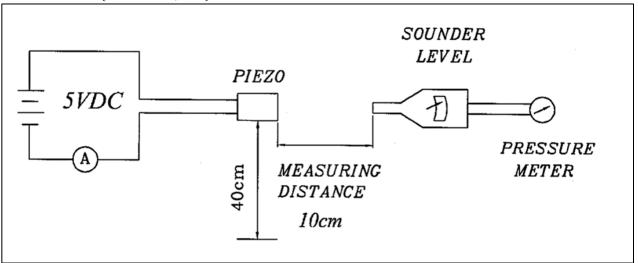
Controls

Priority	Description	Connection	
Standby	Silence	(+) → DC+	
(off)		(-) → Ground	
Low	2 alerts repeated	(+) → DC+	
	every 20 seconds	(-) → Ground	
		• L pin to (-)	
Medium	3 alerts repeated	(+) → DC+	
	every 10 seconds	(-) → Ground	
		• M pin to (-)	
High	10 alerts	(+) → DC+	
	repeated every 3	(-) → Ground	
	seconds	• H pin to (-)	



Measurement Method

Standard Test Fixture (Distance: 10cm, 5VDC)



Reliability Testing Standard Test Condition (+5~+35°C, 45~85% RH)` Judgement Test Condition (+25±2°C, 60~70% RH)

Type of Test	Test Specifications	Judgement
Solderability	Lead terminals immersed in rosin for 5 seconds, then immersed in solder bath of +270±5°C for 3±1 seconds.	Minimum 90% of lead terminals shall be wet with solder (excluding terminal edges) after test.
Soldering Heat Resistance	Lead terminals immersed up to 1.5mm from part body in solder bath of +300±5°C for 3±0.5 seconds or +260±5°C for 10±1 seconds	No interference in operation after test.
Vibration	1.5mm amplitude vibration with 10-55Hz vibration band frequency applied to each XYZ directions for 2 hours.	Value of oscillation frequency/current consumption should be within 10% of initial value.
Drop	Dropped onto wooden board 4cm thick in each XYZ axis 3 times (9 total).	SPL should deviate no more than ±10dB SPL of initial value.
High Temperature	Temperature: +85°C Duration: 240 hours	
Low Temperature	Temperature: -30°C Duration: 240 hours	
Humidity	Temperature: +40°C Relative Humidity: 90±5% Duration: 240 hours	Allow 4 hours rest at +25°C after each test. Value of oscillation frequency/current
Temperature Cycle	-30°C +25°C +25°C +25°C -30°C	consumption should be within 10% of initial value. SPL should deviate no more than ±10dB SPL of initial value. Allow 4 hours rest at +25°C after each test.
Continuous Life	Duty Cycle: Continuous Voltage: 5V Temperature: +70°C Duration: 48 hours	Value of oscillation frequency/current consumption should be within 10% of initial value. SPL should deviate no more than ±10dB SPL of initial value.
Intermittent Life	Duty Cycle: 1 minute on, 1 minute off Voltage: 5V Temperature: +25±2°C Duration: Minimum 5000 cycles (each tone)	Tilluai value.

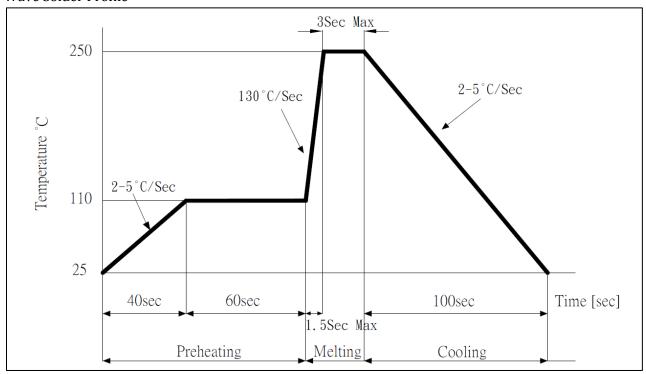
Recommended Soldering Practices

Manual / Hand Solder:

Solder Temperature: 330°C ~ 380°C

Max Solder Time: 2 seconds

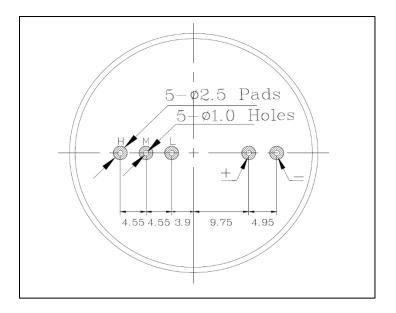
Wave Solder Profile



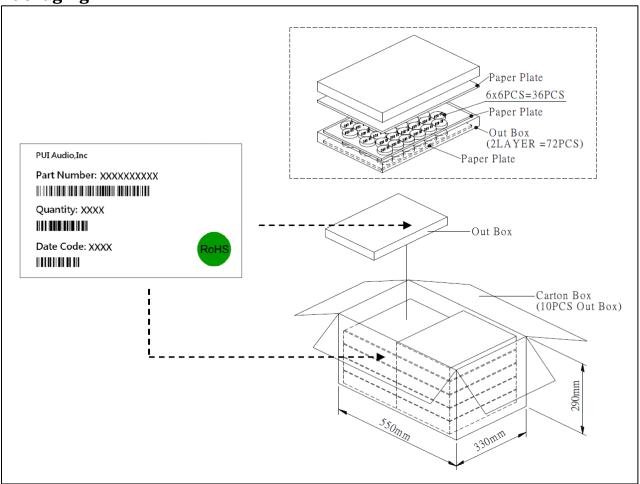
Recommended Land Pattern

This land pattern is advisory only and its use or adaptation is entirely voluntary.

<u>PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.</u>



Packaging



Specifications Revisions

Revision	Description	Date	Approved
A	RELEASED FROM ENGINEERING	8/13/2024	KM

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.