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Data Sheet	AMI-4440-TT-C

Features:

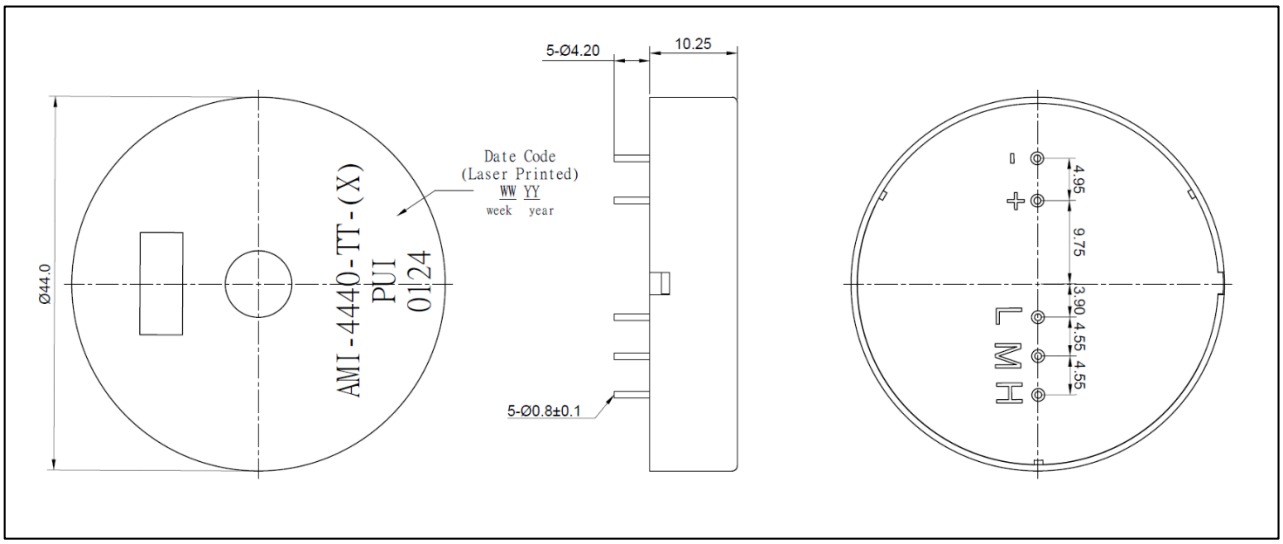
- Piezo Indicator
- IEC 60601-1-8 Compliant Cardiovascular Tone

Specifications

Parameters	Values	Units
Rated Voltage	5	VDC
Operating Voltage Range	3.3 ~ 5	VDC
Input Peak Current (Maximum at 5VDC)	150	mA
Standby Current (Maximum at 5VDC)	12	mA
Active Current (Maximum at 5VDC / LMH Tones)	20	mA
Minimum SPL (Measured at 10cm / 5VDC)	80	dBA
Typical SPL (Measured at 10cm / 5VDC)	80 ~ 90	dBA
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	**Cardiovascular**	**IEC60601-1-8 Compliant**

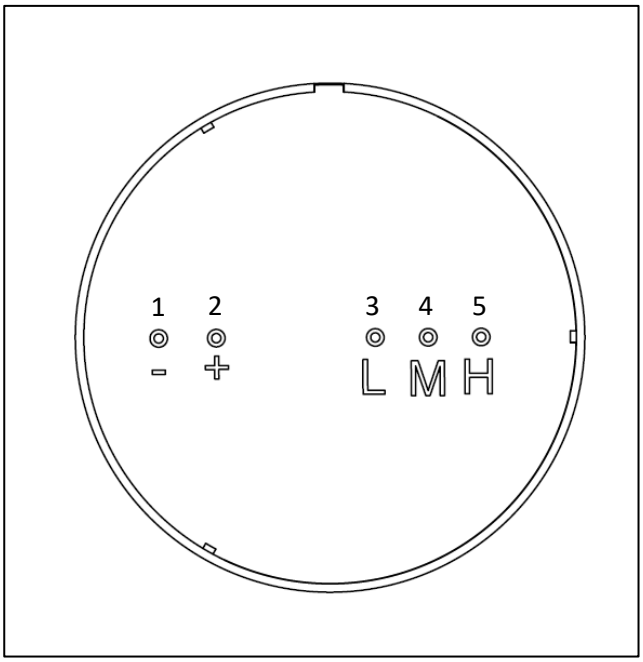
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Dimensions



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



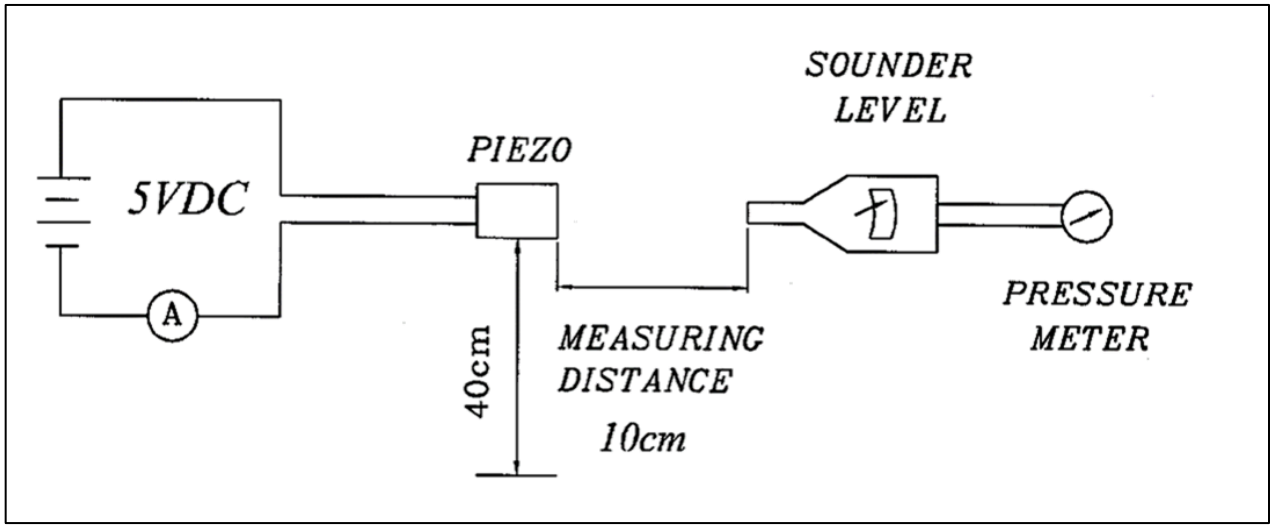
Controls

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

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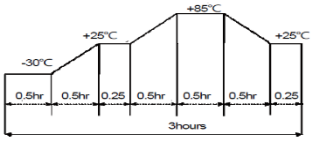
Measurement Method

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. SPL should deviate no more than ±10dB SPL of initial value.
Drop	Dropped onto wooden board 4cm thick in each XYZ axis 3 times (9 total).	
High Temperature	Temperature: +85°C Duration: 240 hours	Allow 4 hours rest at +25°C after each test. Value of oscillation frequency/current 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. Value of oscillation frequency/current consumption should be within 10% of initial value. SPL should deviate no more than ±10dB SPL of initial value.
Low Temperature	Temperature: -30°C Duration: 240 hours	
Humidity	Temperature: +40°C Relative Humidity: 90±5% Duration: 240 hours	
Temperature Cycle	 Repeat 5 cycles	
Continuous Life	Duty Cycle: Continuous Voltage: 5V Temperature: +70°C Duration: 48 hours	
Intermittent Life	Duty Cycle: 1 minute on, 1 minute off Voltage: 5V Temperature: +25±2°C Duration: Minimum 5000 cycles (each tone)	

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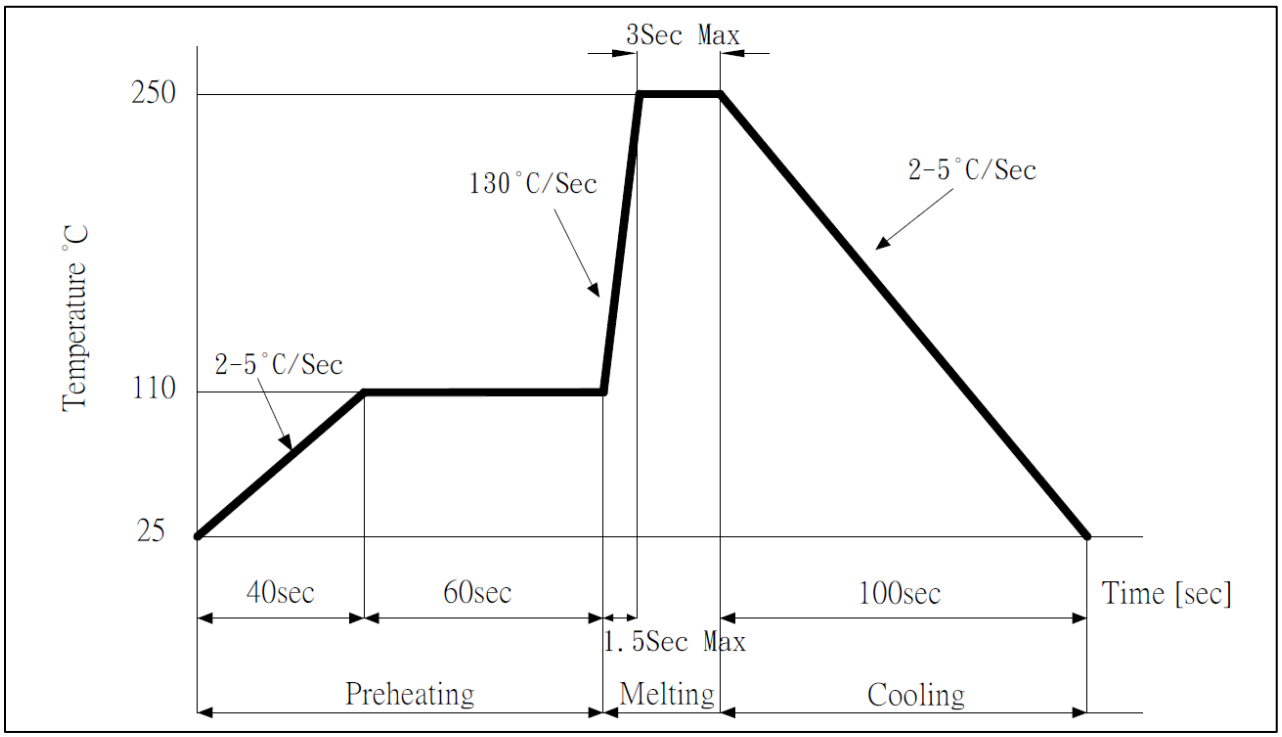
Recommended Soldering Practices

Manual / Hand Solder:

Solder Temperature: 330°C ~ 380°C

Max Solder Time: 2 seconds

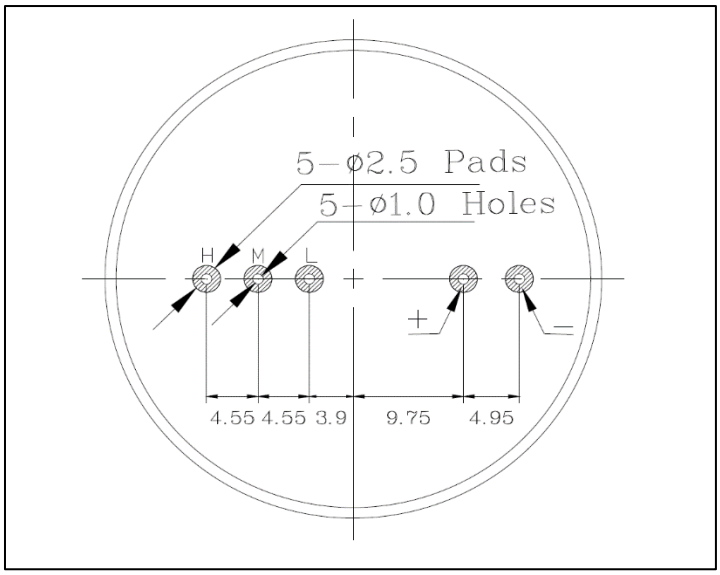
Wave Solder Profile



Recommended Land Pattern

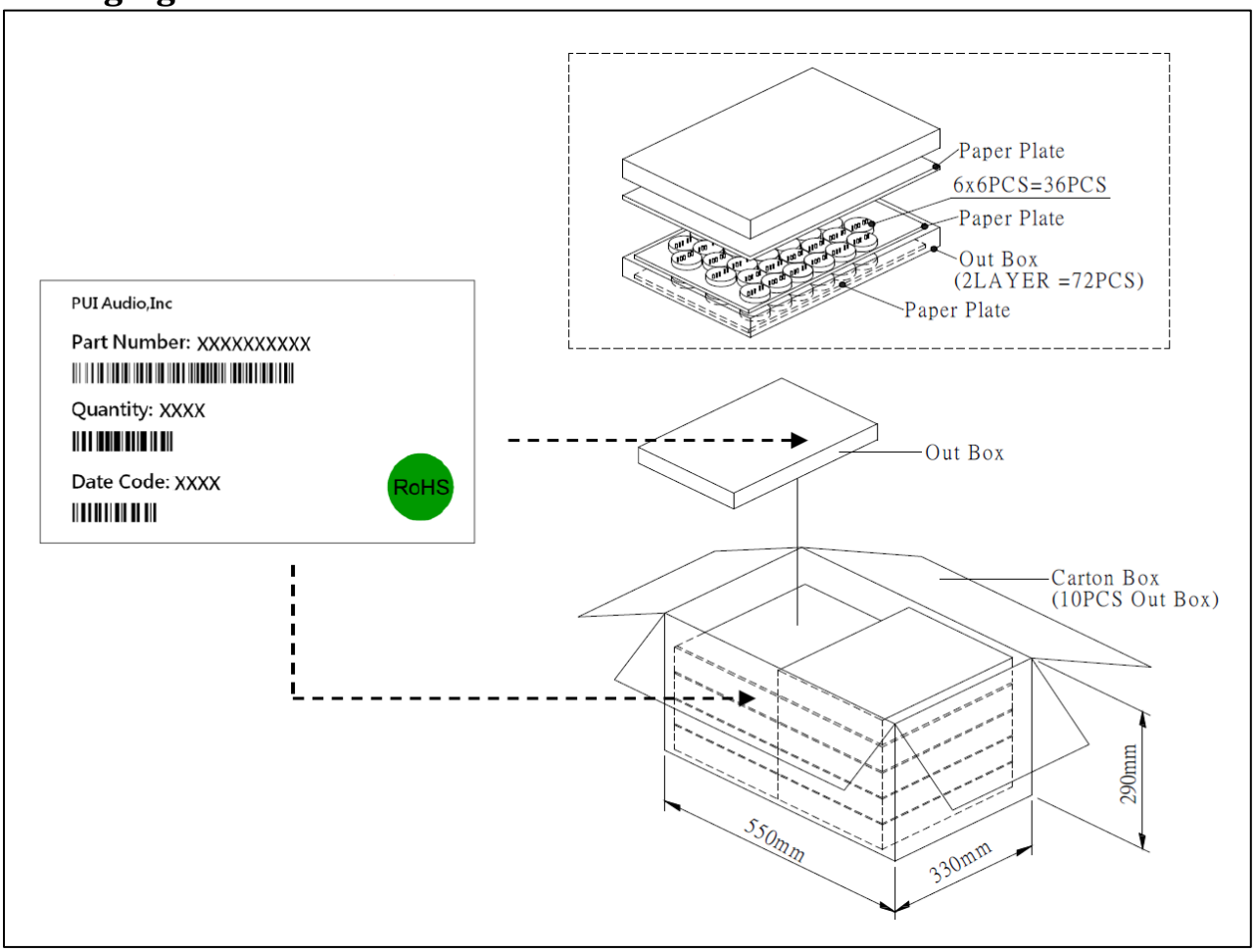
This land pattern is advisory only and its use or adaptation is entirely voluntary.

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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 ±0.5mm and angles are ±3°.
2. Specifications subject to change or withdrawal without notice.