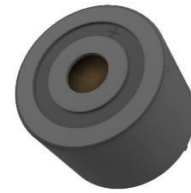




# PUIaudio



Data Sheet

AI-2437-TT-2-R

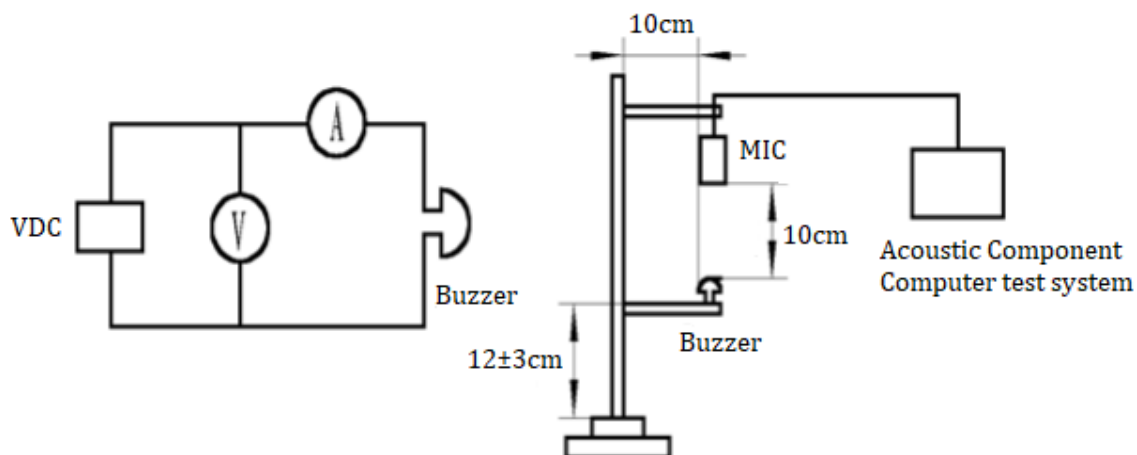
## Features:

- 24mm diameter X 18mm height
- Minimum 90dB output at 30cm
- Weighs 6 grams

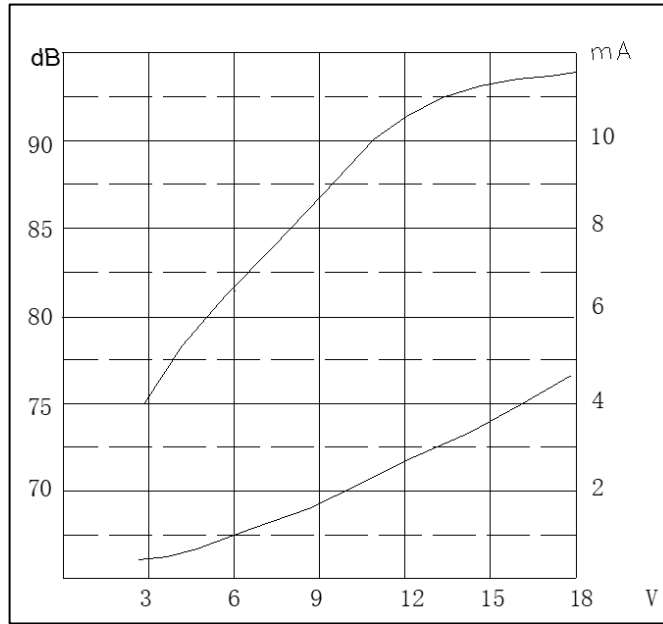
## Specifications

Parameters	Values	Units
Rated Voltage	12	VDC
Operating Voltage Range	3 ~ 16	VDC
Current Draw at Rated Voltage	8 Max.	mA
Minimum SPL @ 30cm	90	dBA
Resonant Frequency	3,700 ± 500	Hz
Tone or Pulse Rate	Continuous	0 pulse per second
Housing Material	Noryl (Black)	-
Terminal Material	Sn plated Red Copper	-
Weight	6	Grams
Environmental Compliances	RoHS/REACH	Ex. 7c-1
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-30 ~ +70	°C

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

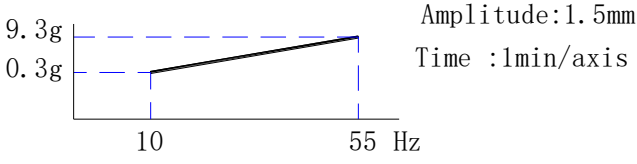


## Typical SPL and Current vs Input Voltage



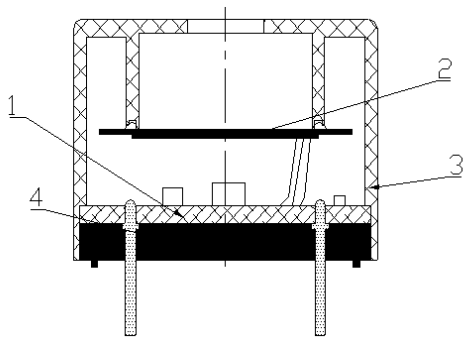
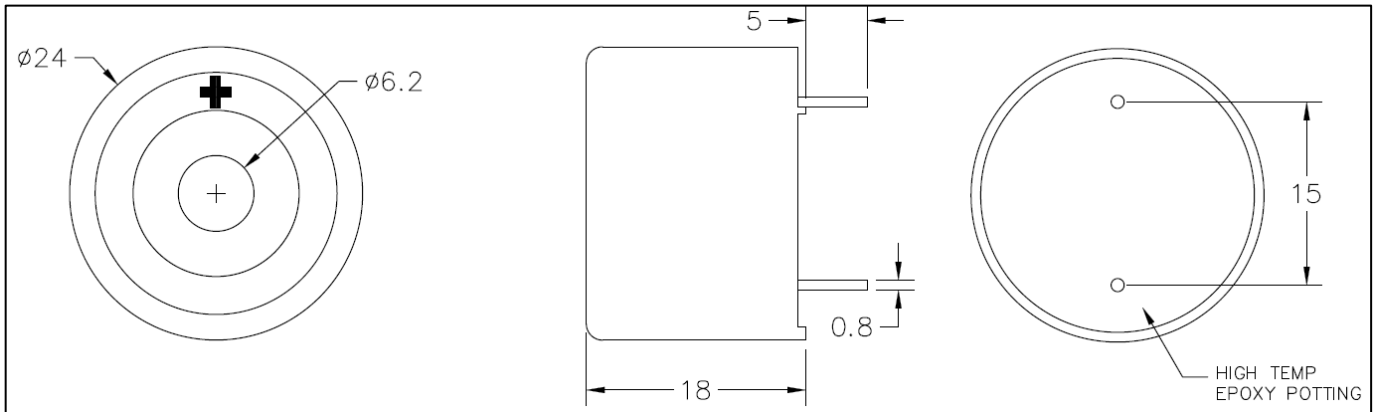
## Reliability Testing:

NO.	ITEM	TESTING CONDITION
1	Humidity	40±2°C, 90-95%RH, 96HRS
2	High temp.	+85±2°C, 96HRS
3	Low temp.	-40±2°C, 96HRS
4	Temperature cycling	<p>5 Cycles without applying power, then expose part for 2 hours</p>
5	Drop test	Each x,y,z direction from height of 70cm onto the surface of 10mm thick wooden board.

6	Vibration test	 <p>Amplitude: 1.5mm Time: 1min/axis</p> <p>Test for x,y,z direction for 2 hours each (total 6 hours)</p>
7	Solder heat resistance	<p>The part leads (pins) shall be immersed in molten solder maintained at <math>260 \pm 5^\circ\text{C}</math> for a period of <math>3 \pm 0.5</math> seconds.</p>

After testing, the change of S.P.L shall be within  $\pm 5$  dB.

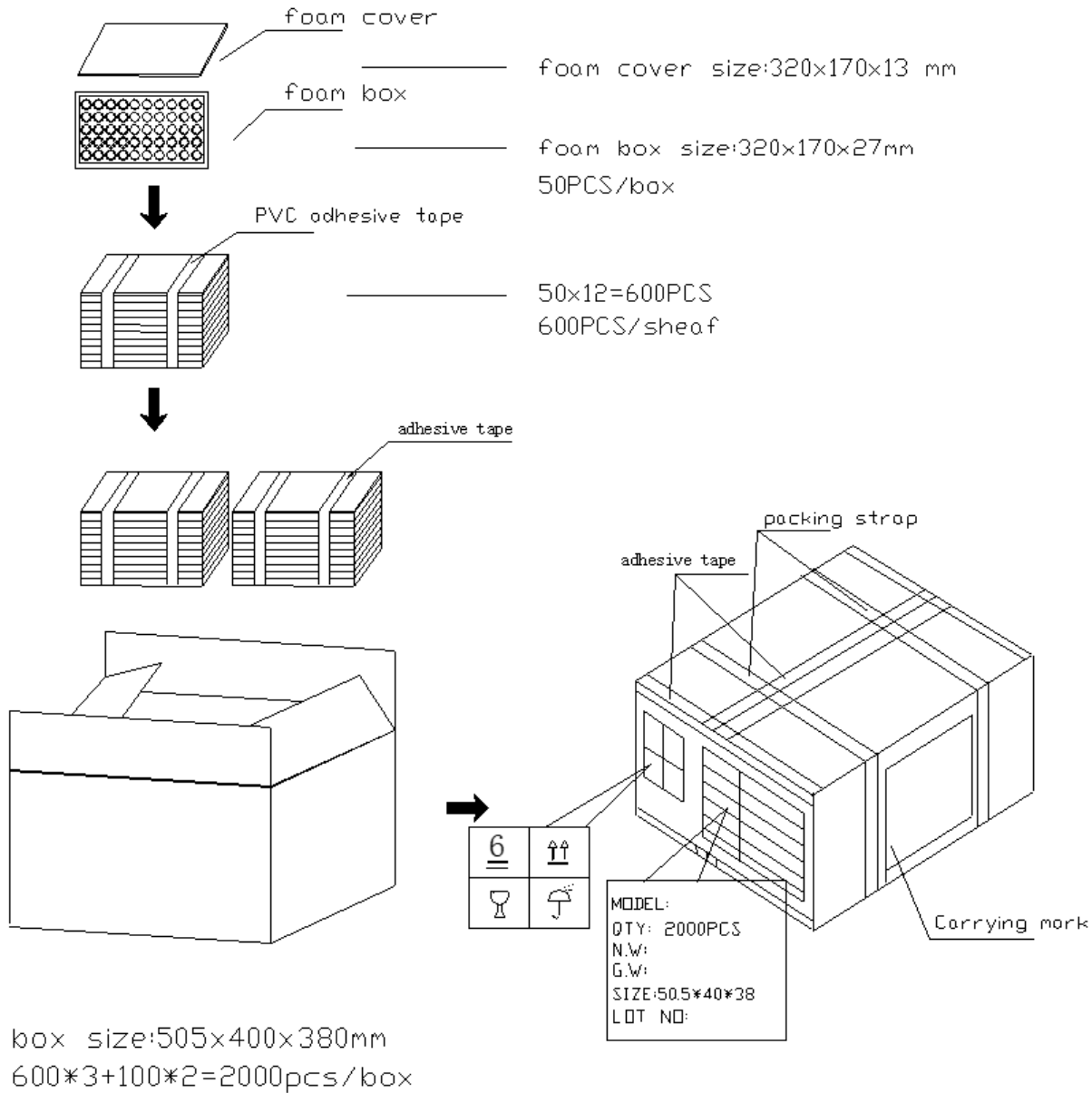
## Dimensions



**\*Wave solder allowed, wash not allowed**

Part No.	Part Name	Q'TY	Material
4	Potting		Epoxy
3	Housing	1	Black Noryl
2	Piezo element	1	Brass
1	PCB	1	Epoxy Board

## Packaging



**Specifications Revisions**

<b>Revision</b>	<b>Description</b>	<b>Date</b>
A	RELEASED FROM ENGINEERING	2/24/2021
B	Revised SPL to 90dB @ 30cm	7/14/2023

Note:

1. Unless otherwise specified:
  - A. All dimensions are in millimeters.
  - B. Default tolerances are  $\pm 0.5\text{mm}$  and angles are  $\pm 3^\circ$ .
2. Specifications subject to change or withdrawal without notice.
3. Part is wave solderable. Washing not allowed.