



# PUIaudio



Data Sheet

AT-1052-T

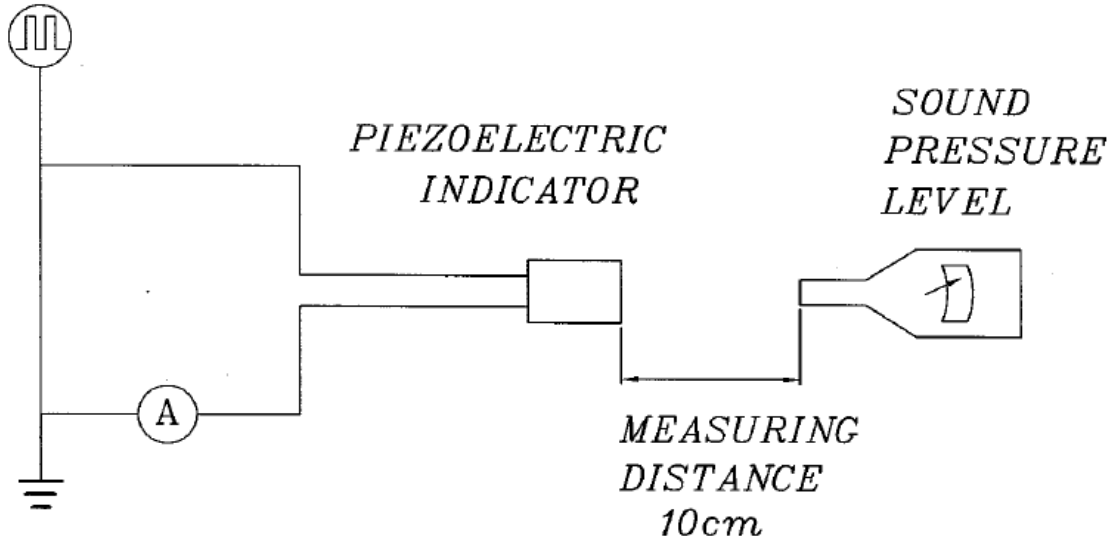
## Features:

- Small profile transducer for
- High SPL for small size
- 5.2kHz resonant frequency

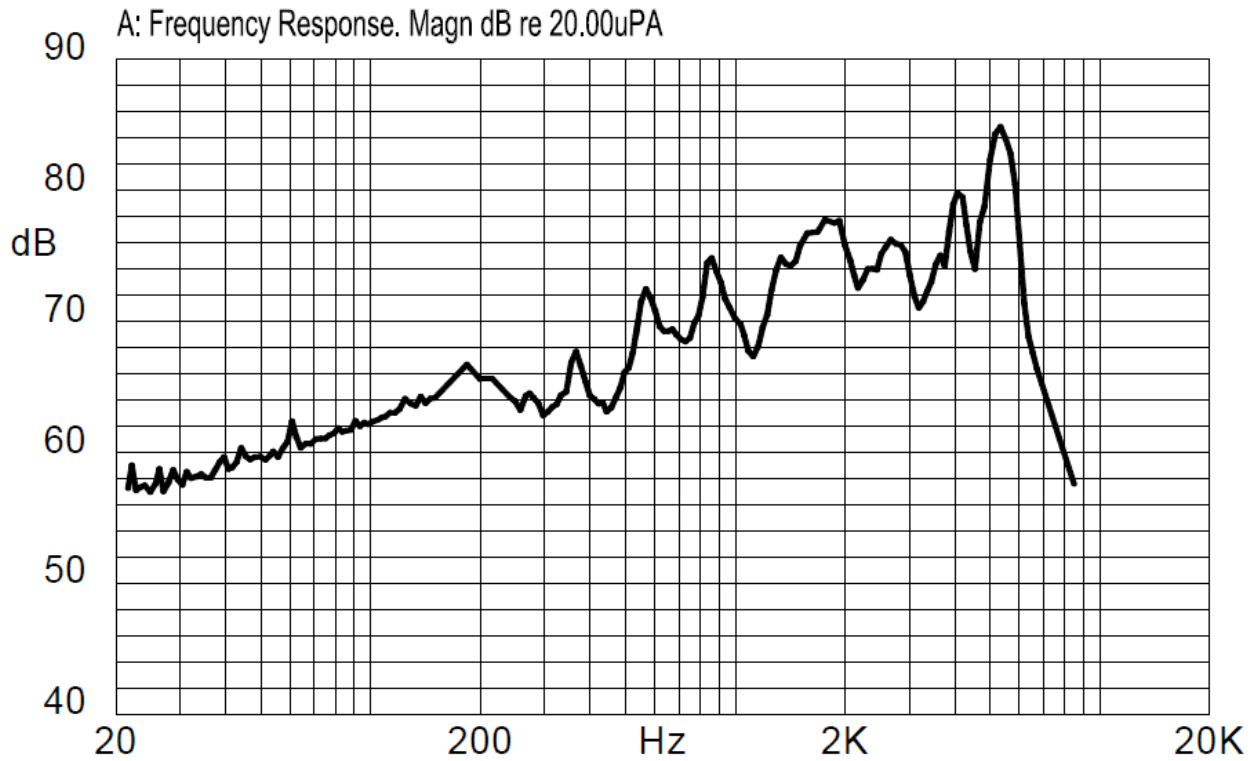
## Specifications

Parameters	Values	Units
Rated Voltage	5	Vp-p
Operating Voltage Range	5~25	Vp-p
Current Draw at Rated Voltage	5	mA
Capacitance	11,000 ± 30%	pF
Minimum SPL @ 10cm	75	dBA
Resonant Frequency	5,200 ± 500	Hz
Housing Material	LCP (Black)	-
Terminal Material	AU Plating	-
Weight	0.3	Grams
Acceptable Soldering Methods	Reflow Solder	See page 3 for soldering information
Environmental Compliances	<i>RoHS/REACH</i>	Ex. 7c-1
Moisture Sensitivity Level	5	-
Storage Temperature	-30 ~ 80	°C
Operating Temperature	-20 ~ 70	°C

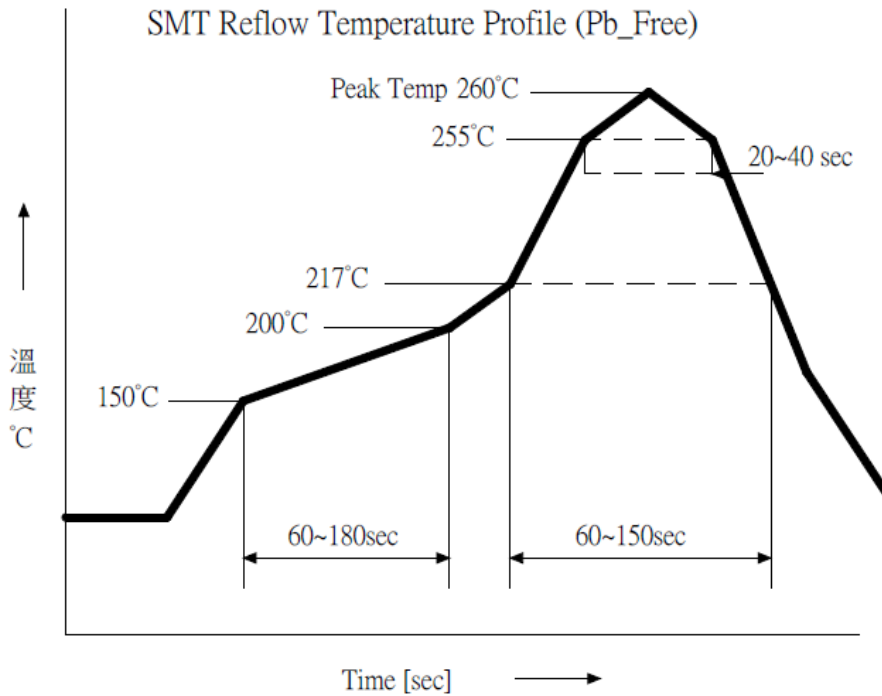
### Measurement Method (5Vpp, 5.2kHz)



### Typical Frequency Response (5Vpp, 5.2kHz)



## Recommended Soldering Procedure

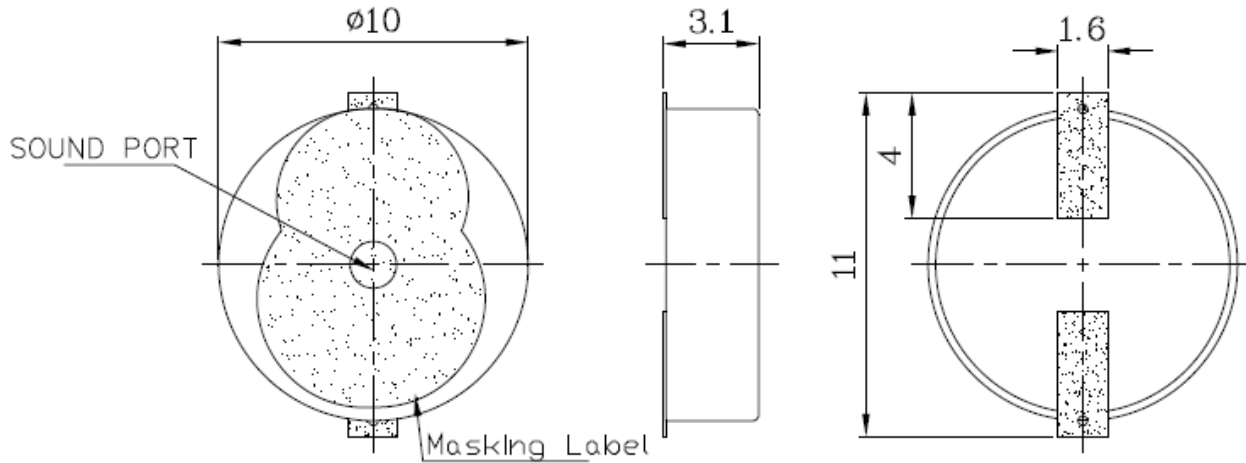


## Reliability Testing

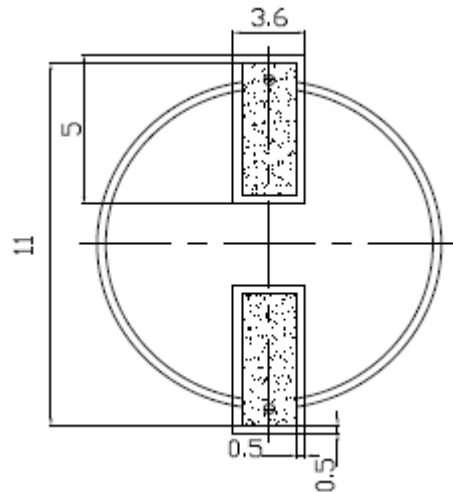
Type of Test	Test Specifications
High Temperature Test	96 hours at 80°C
Low Temperature Test	96 hours at -30°C
Humidity Test	96 hours at 40°C with relative humidity at 90%
Temperature Cycle Testing	Run for 5 cycles with each cycle consisting of: 
Vibration Test	Frequency: 10Hz to 55Hz; Amplitude: 1.55mm 2 hours in each of the X,Y, and Z axes

After each test, let the part rest for 4 hours, then the change in SPL shall be within  $\pm 10\text{dB}$

## Dimensions

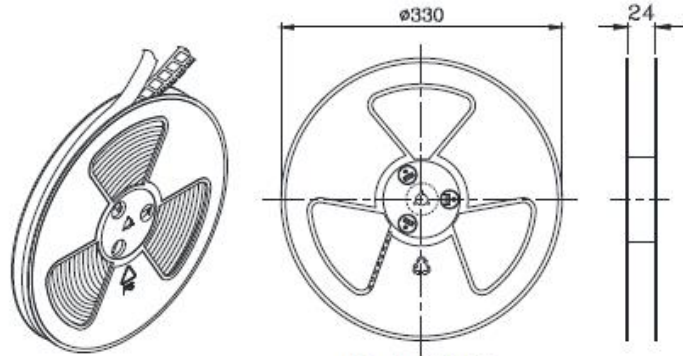


## Suggested Land Pattern\*

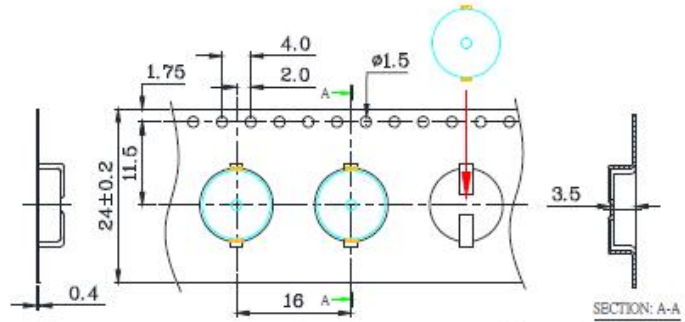


\*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

# Packaging



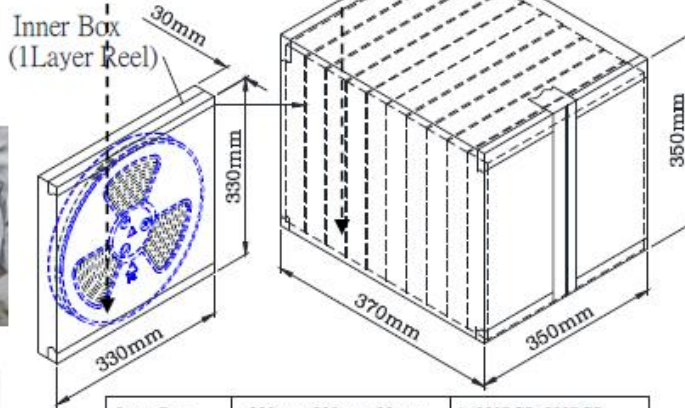
1 Reel : 800PCS



Lot No.	XXXXXXXXXX
Part No.	XXXXXXXXXX
Quantity	XXXX Pcs
Date:	
WWYY	

Unit:mm

Carton Box  
(10 Inner Box)



Inner Box	330mmx330mmx30mm	1x800PCS=800PCS
Carton Box	350mmx350mmx370mm	10x800PCS=8,000PCS

**Caution**  
The components  
are sensitive devices

1. Caution must be observed during 12 months of storage and during assembly (see 2.1).

2. Peak package body temperature: **85** °C

3. After being in storage, devices that will be subjected to reflux solder or other high temperature process must be at allowed value: **48** hours of factory controlled conditions (P1) or:

4.1. 1 hour per 2 (T120)

4.2. Devices required under normal processing:

4.1. Humidity Indicator Card needs 10% for level 2a - by decision on 48% for level 2. Devices when used at 20 ± 2°C

4.2. 30 or 20 are not use

5. If testing is required, refer to PUI-02012-0-070-003 for more information.

Buyer's Name: \_\_\_\_\_

Buyer's Name and Address: PUI-02012-0-070-003

DATE	QTY	LOT NO.	QTY	INITIAL

**HUMIDITY INDICATOR**  
Cobalt-Free

**Bake Units if Blue** 15%

**Bake Units if Blue** 10%

**Change Desiccant if Blue** 5%

Discard if Circles Overrun  
Avoid Metal Contact

**Specifications Revisions**

<b>Revision</b>	<b>Description</b>	<b>Date</b>	<b>Approved</b>
A	Released from Engineering	11/27/24	JD

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.