



# PUIaudio



Data Sheet

AT-1224-TWT-12V-2-R

## Features:

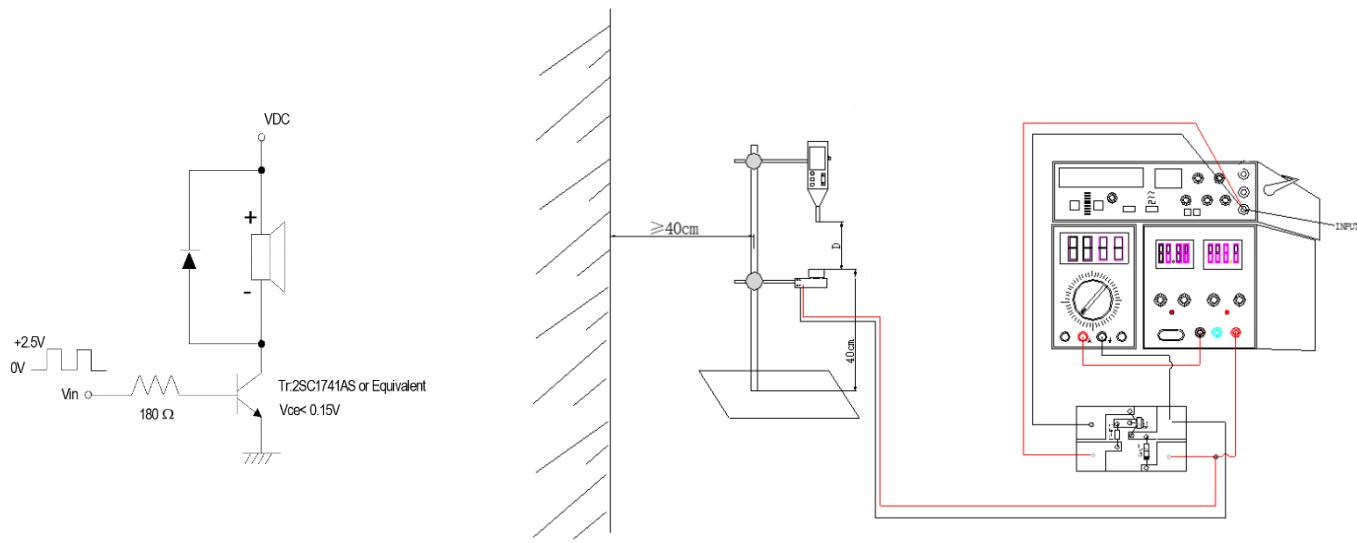
- 12Vpk, 2400Hz Magnetic Transducer
- Pin Type
- Wave Solder and Washing Allowed

## Specifications

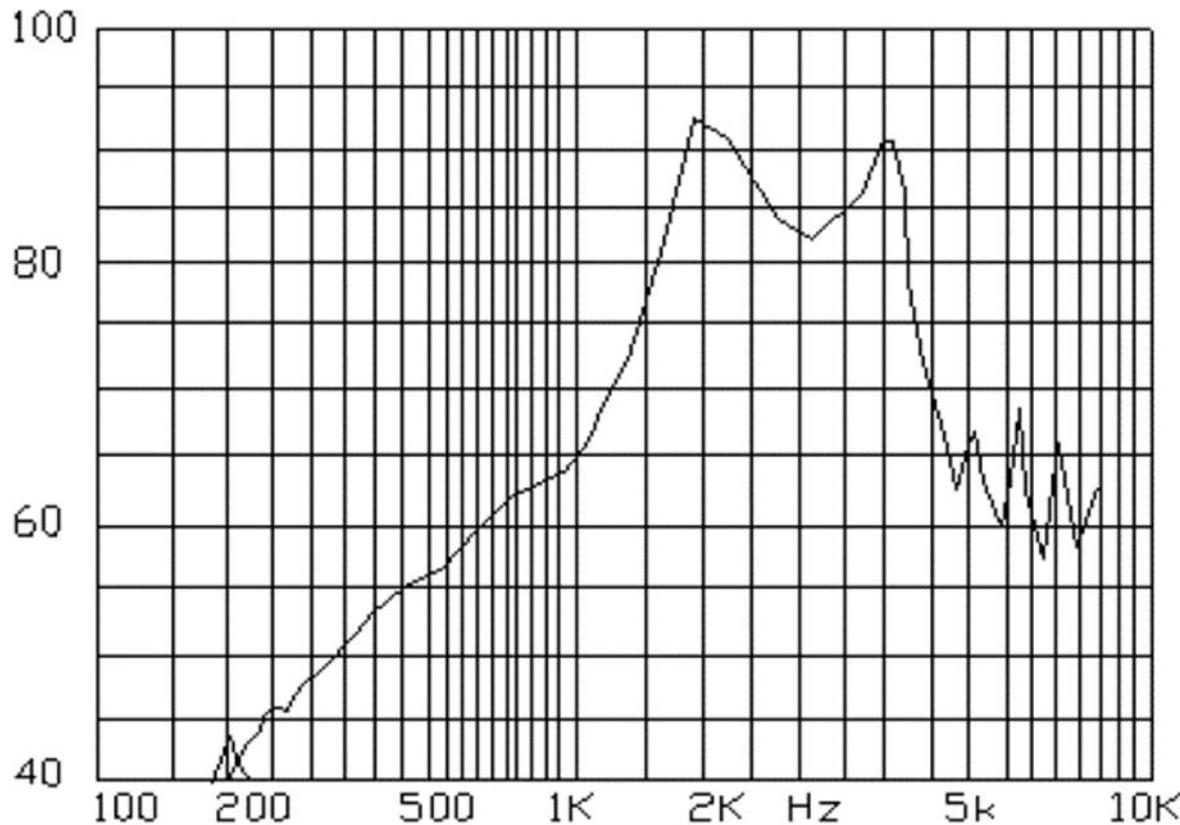
Parameters	Values	Units
Rated Voltage	12	V0-p
Operating Voltage Range	8 ~ 15	V0-p
Current Draw at Rated Voltage	40(Max.)	mA
Coil Resistance	140 ± 21	Ohms
Minimum SPL @ 10cm	85	dBA
Resonant Frequency	2,400 ± 500	Hz
Housing Material	PBT	-
Terminal Material	Sn Plated Brass	-
Weight	2	Grams
Acceptable Soldering Methods	Hand Solder, Wave Solder	-
Environmental Compliances	RoHS/REACH	-
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-30 ~ +80	°C

## Measurement Method (Temperature: 25±3°C; Relative Humidity: 60% ~ 70%)

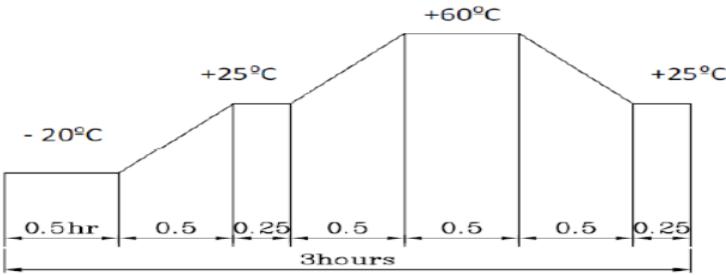
Standard Test Fixture (Distance: 10cm, 12V0-p, 2400Hzsquare wave)



## Typical Frequency Response (12Vpk square wave, 10cm)

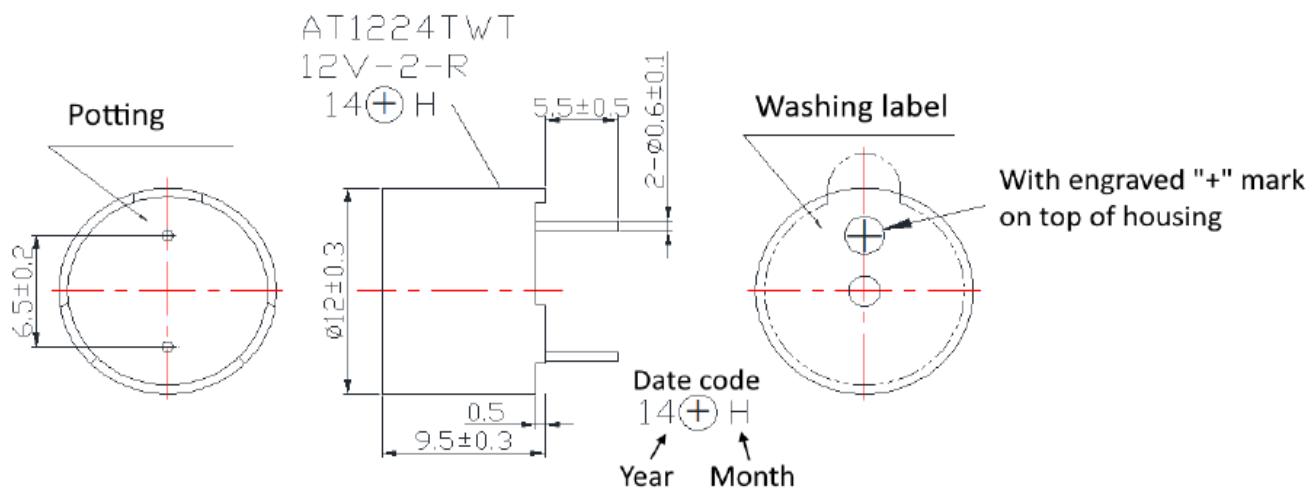


## Reliability Testing

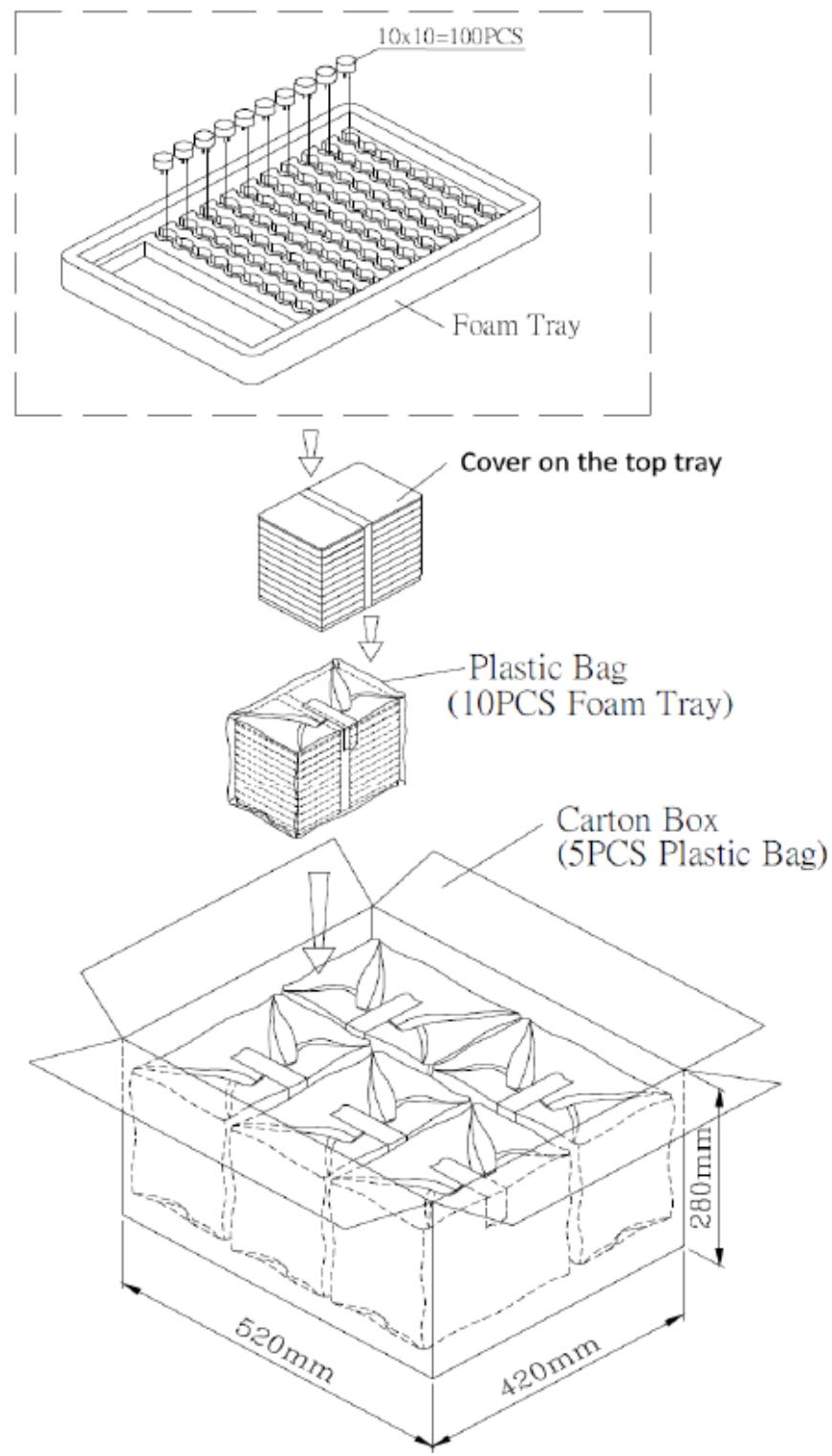
Type of Test	Test Specifications
High Temperature Test	96 hours at 70°C.
Low Temperature Test	96 hours at -20°C.
Humidity Test	96 hours at 40°C with relative humidity at 90-95%.
Temperature Cycle Testing	Subject part to 5 cycles of the following test. Once cycle shall be  <p>The diagram illustrates a temperature cycle test. It shows a triangular waveform with three distinct levels: -20°C, +25°C, and +60°C. The cycle is completed in 3 hours. At each level, there is a dwell time of 0.5 hours. Between the levels, the transition times are 0.25 hours each.</p>
Vibration Test	Applied vibration amplitude of 1.5mm with 10-55hz band of vibration frequency to each XYZ direction for 2 hours.
Drop Test	Drop onto a 4cm thick wooden board in any direction for 6 times from height of 75cm.

\*After tests, allow part to rest at normal room condition for 2 hrs. Part shall be  $\pm 10\text{dB}$  of state values.

## Dimensions (Positive terminal marked with + on housing)



## Packaging



Foam Tray	240mmx160mmx30mm	1x100PCS=100PCS
Plastic Bag		10x100PCS=1000PCS
Carton Box	520mmx420mmx280mm	5x1000PCS=5,000PCS

**Specifications Revisions**

<b>Revision</b>	<b>Description</b>	<b>Date</b>	<b>Approved</b>
-	RELEASED FROM ENGINEERING	07/25/2014	-
A	Update Spec Format, Add Details for Packaging, Reliability, etc. Revised Pin Plating to Sn, Revised Operating Voltage Range	10/14/2024	ML

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.