©2024, PUI Audio Inc.



REMOVE SEAL AFTER WASHING

Data Sheet AT-1224-TWT-4-R

Features:

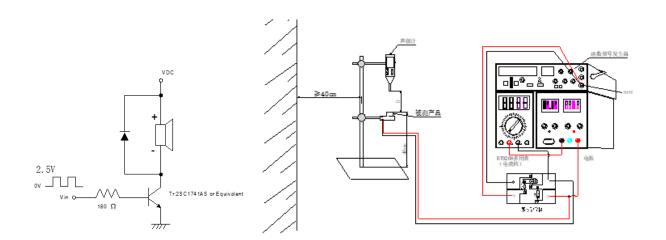
- High Temp 12Vpk, 2400Hz Magnetic Transducer
- Pin Type
- Wave Solder and Washing Allowed

Specifications

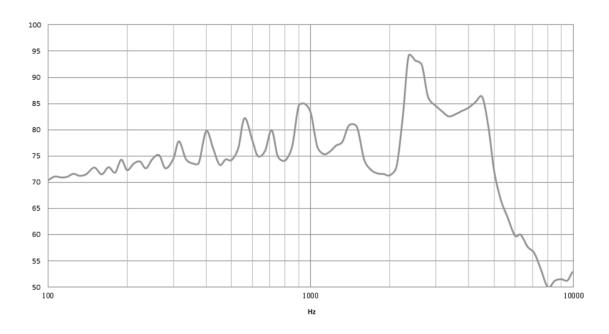
Parameters	Values	Units	
Rated Voltage	12	V0-p	
Operating Voltage Range	6 ~ 15	V0-p	
Current Draw at Rated Voltage	40(Max.)	mA	
Coil Resistance	140 ± 14	Ohms	
Minimum SPL @ 10cm	85	dBA	
Resonant Frequency	$2,400 \pm 500$	Hz	
Housing Material	PBT	-	
Terminal Material	Sn Plated Copper	-	
Weight	2	Grams	
Acceptable Soldering Methods	Hand Solder, Wave Solder	See following pages for details	
Environmental Compliances	RoHS/REACH	-	
Storage Temperature	-40 ~+110	°C	
Operating Temperature	-40 ~ +105	°C	

$Measurement\ Method\ {\it (Temperature: 25\pm3°C; Relative\ Humidity: 60\% \sim 70\%)}$

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



Response Curve (12Vpk, 2400Hz square wave @ 10cm)

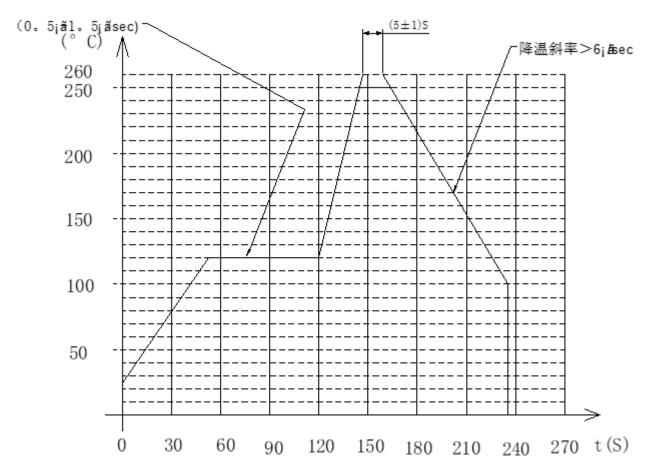


Reliability Testing

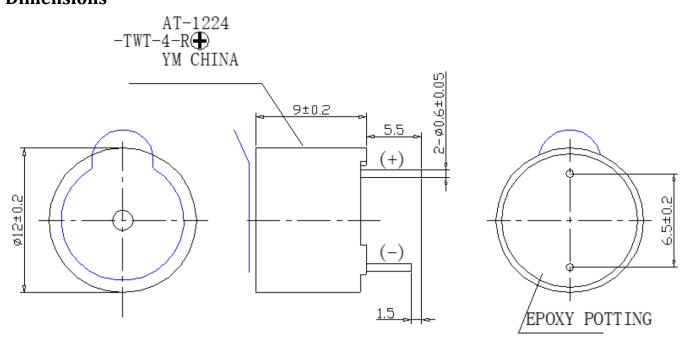
Type of Test	Test Specifications		
High Temperature Test	96 hours at +110°C±2°C then rest at room temperature for 2 hours without applying power		
Low Temperature Test	96 hours at -40°C±2°C then rest at room temperature for 2 hours without applying power		
Humidity Test	96 hours at +40°C±2°C with relative humidity at 90-96% then rest at room temperature for 2 hours without applying power		
Trumatey Test	+110°C		
Temperature Cycle Testing	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
Vibration Test	9. 3g Amplitude: 1. 5mm Time: 1min/axis 10 55 Hz In X,Y,Z directions for 2 hours each (6 hours total)		
Drop Test	Drop a piece from a height of 1m to the surface of a 10mm thick board, drop the piece on the X, Y, Z axis		

After these tests, the piece should test within ± 5dB of the original SPL

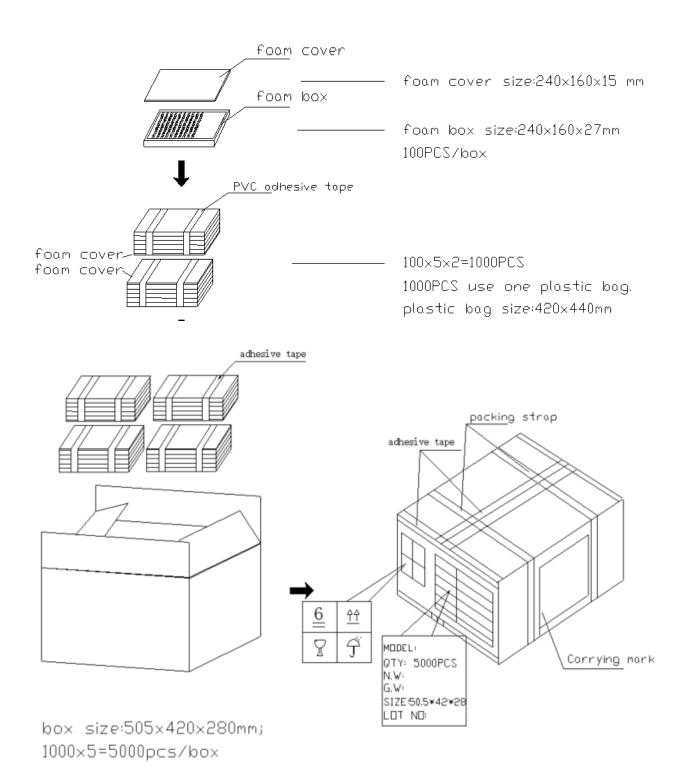
Recommended Wave Solder Profile



Dimensions



Packaging



This document contains data proprietary to PUI Audio Inc. Any use or reproduction, in any form, without prior written permission of PUI Audio Inc. is prohibited.

© 2024, PUI Audio Inc.

Specification Revisions

Revision	Description	Date	Approved
-	RELEASED FROM ENGINEERING	07/21/2005	ı
A	REVISED BODY DIMENSION	11/27/2007	RW
В	REVISED TO 3D DRAWING TEMPLATE	04/07/2008	BR
С	REVISED OPERATING TEMPERATURE	11/07/2012	BR
D	CHANGE VOLTAGE FROM VPP TO VPK, UPDATED ROHS	05/16/2019	ML
Е	Update Spec Format, Add Details for Reliability, Packaging, etc.	09/18/2024	ML

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.