



Data Sheet

AT-1620-TWT-12V-R

Features:

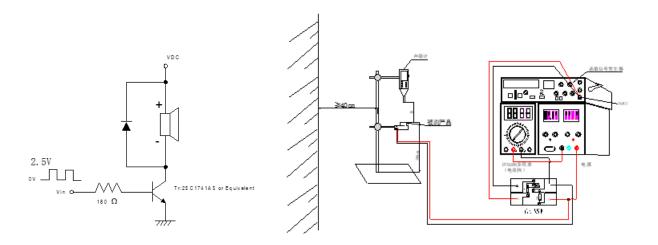
- 12 V0-pk, 2048Hz Magnetic Transducer
- Pin Type
- · Wave Solder and Wash Allowed

Specifications

| Parameters | Values | Units | |
|-------------------------------|--------------------------|-------|--|
| Rated Voltage | 12 | V0-p | |
| Operating Voltage Range | 9 ~ 15 | V0-p | |
| Current Draw at Rated Voltage | 40(Max.) | mA | |
| Coil Resistance | 115 ± 12 | Ohms | |
| Minimum SPL @ 10cm | 85 | dBA | |
| Resonant Frequency | 2,048 ± 500 | Hz | |
| Housing Material | NORYL | - | |
| Terminal Material | Sn Plated Copper | - | |
| Weight | 5 | Grams | |
| Acceptable Soldering Methods | Hand Solder, Wave Solder | - | |
| Environmental Compliances | RoHS/REACH | - | |
| Storage Temperature | -30 ∼ +80 | °C | |
| Operating Temperature | -40 ~ +85 | °C | |

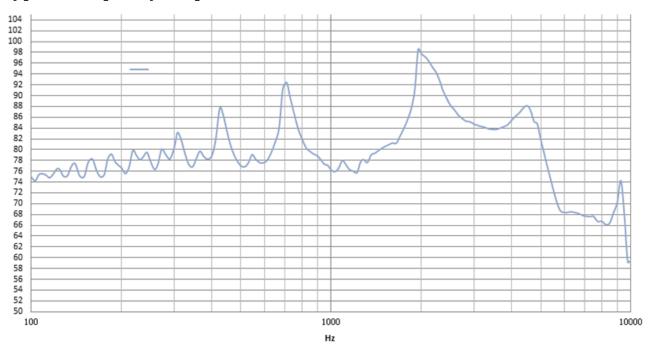
Measurement Method (Temperature: 25±3°C; Relative Humidity: 60% ~ 70%)

Standard Test Fixture (Distance: 10cm, 12V0-p, 2048Hz square wave)



©2024, PUI Audio Inc.

Typical Frequency Response

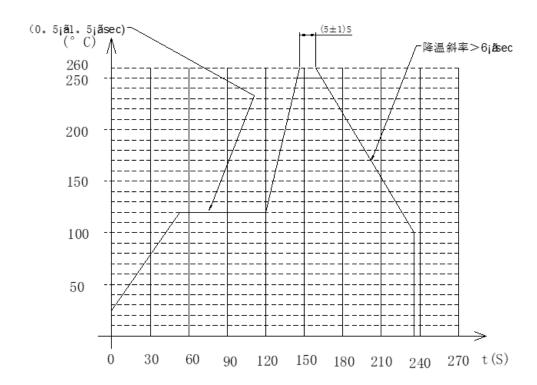


Reliability Testing

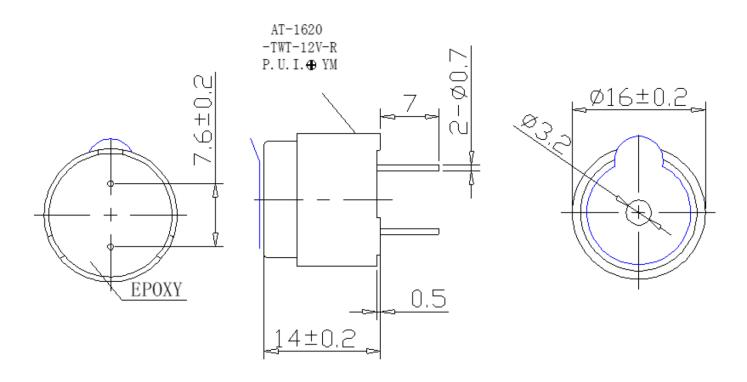
| Type of Test | Test Specifications | | |
|---------------------------|--|--|--|
| High Temperature Test | 96 hours at +80°C±2°C then rest at room temperature for 2 hours without applying power | | |
| Low Temperature Test | 96 hours at -30°C±2°C then rest at room temperature for 2 hours without applying 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 | | |
| Temperature Cycle Testing | +80°C +20°C +20°C +20°C 30min 15min 30min 15min Test for 5 cycles without applying power, then expose to room temperature for 2 hours | | |
| 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

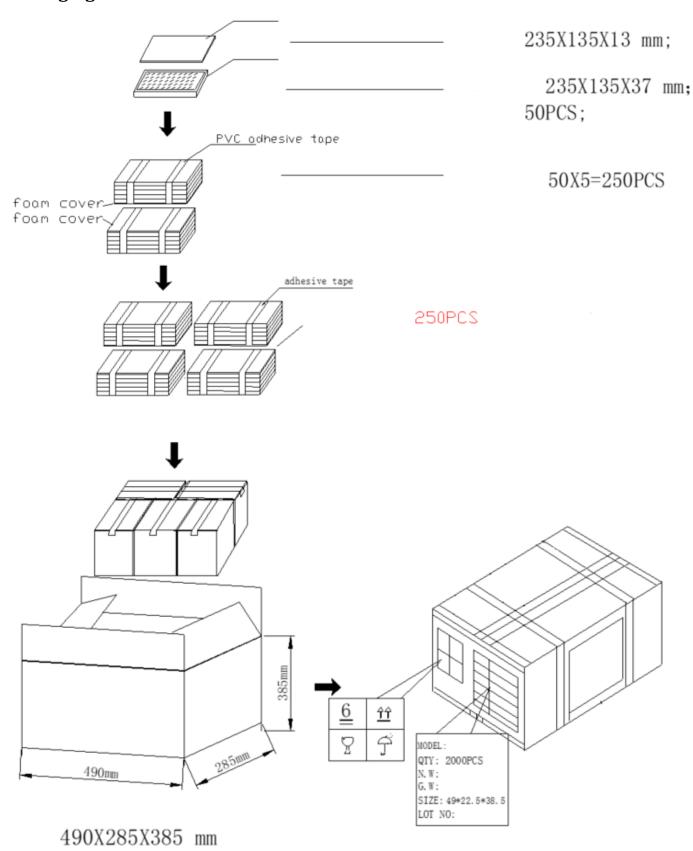
Recommended Wave Solder Profile



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.

Specifications Revisions

| Revision | Description | Date | Approved |
|----------|--|------------|----------|
| - | RELEASED FROM ENGINEERING | 12/31/2003 | - |
| Α | ADDED DIMENSIONS | 08/27/2004 | RW |
| В | REMOVED LEAD FREE ADDED ROHS | 08/10/2005 | - |
| С | REVISED TERMINAL MATERIAL | 03/21/2006 | - |
| D | REVISED TERMINAL LENGTH | 04/17/2008 | BR |
| Е | REVISED TO 3D DRAWING TEMPLATE | 04/17/2008 | BR |
| F | REVISED OPERATING TEMPERATURE | 07/23/2015 | ML |
| G | REVISED VP-P TO VO-PK | 11/03/2021 | - |
| Н | Update Spec Format, Add Details for Reliability, Packaging, etc. | 09/24/2024 | ML |

Note:

- 1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are ± 0.5 mm and angles are $\pm 3^{\circ}$.
- ${\bf 2.} \quad {\bf Specifications \ subject \ to \ change \ or \ with drawal \ without \ notice.}$