

Data Sheet

AT-1620-TWT-HT-R

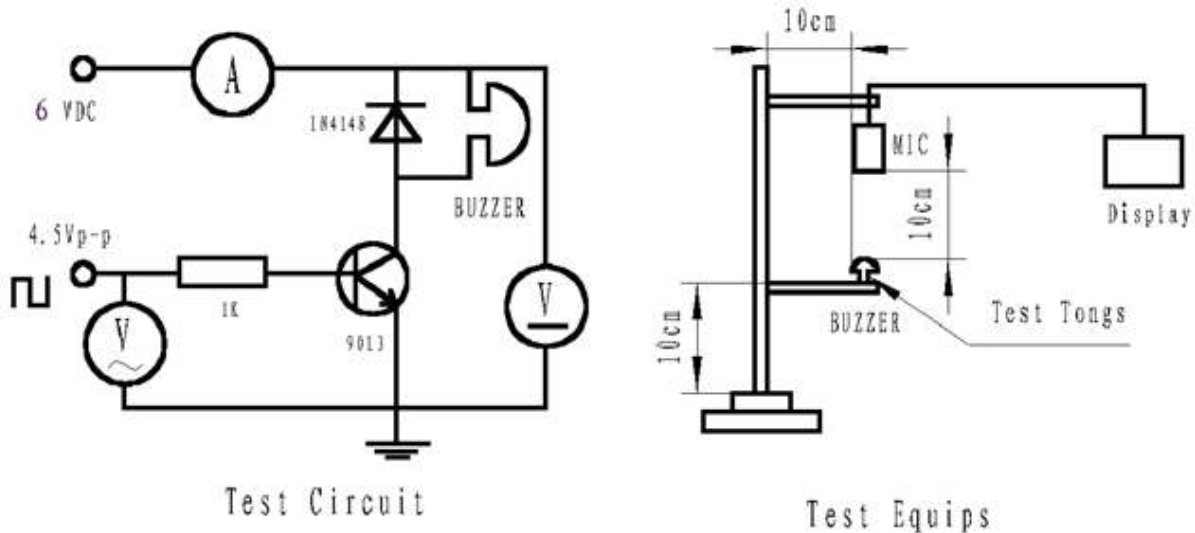
PUI Audio's **High-Temp** line of products is designed with ultra-wide operating temperatures. The **AT-1620-TWT-HT-R** is built for high output at 2048 Hz in a small package.

- 90 dB output with 6V0-p and 2048Hz input
- Low current draw of only 40mA
- Through-hole design for quick, easy mounting on a PCB

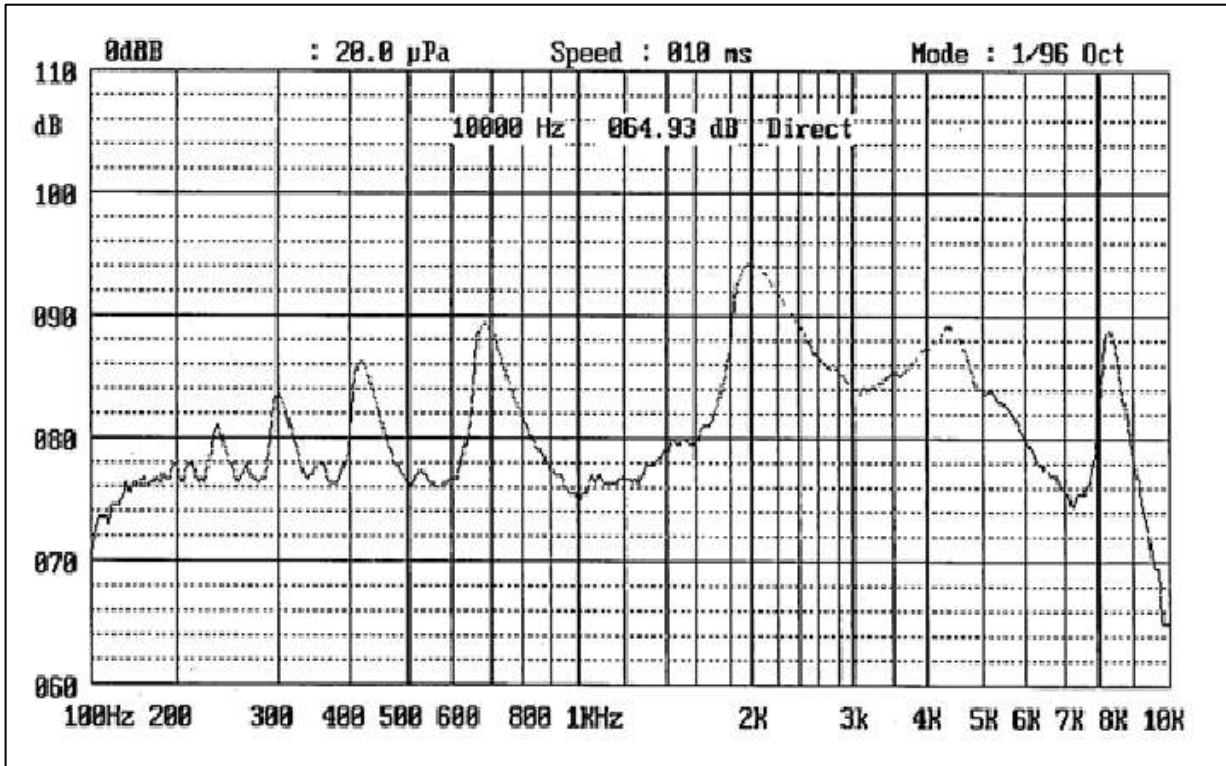
Specifications

Parameters	Values	Units
Rated Voltage	6	V0-p
Operating Voltage Range	3 ~ 8	V0-p
Current Draw at Rated Voltage	≤40	mA
Coil Resistance	50±7	Ohms
Minimum SPL @ 10cm	≥90	dBA
Resonant Frequency	2048 ±500	Hz
Housing Material	PBT	-
Weight	4.9	Grams
Acceptable Soldering Methods	Hand Solder	-
Environmental Compliances	RoHS	-
Storage Temperature	-40 ~ +90	°C
Operating Temperature	-40 ~ +85	°C

Measurement Method (6V0-p, 2048Hz, 50% duty cycle square wave with a SPL meter at 10cm)



Typical Frequency Response (6V0-p sine-sweep with microphone spaced at 10cm)

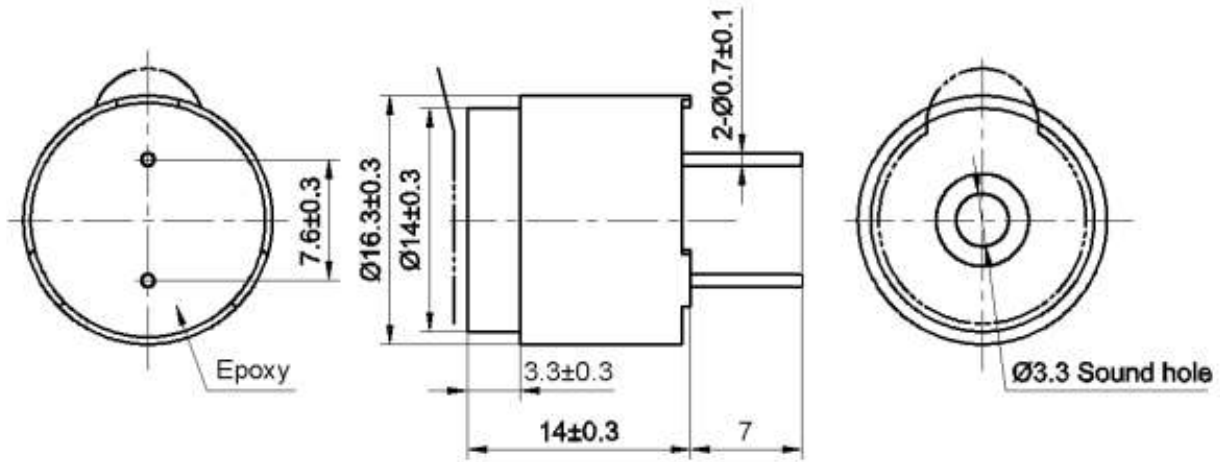


Reliability Testing

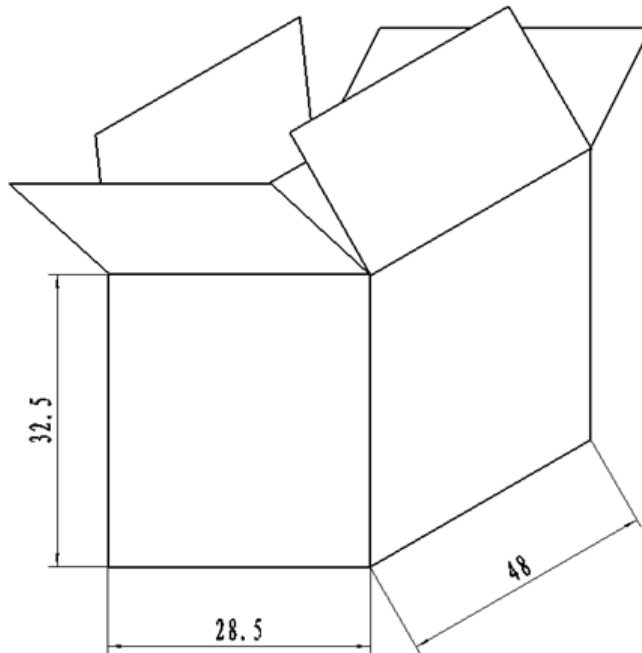
Type of Test	Test Specifications
High Temperature Test	+90±2°C, 96HRS
Low Temperature Test	-40±2°C, 96HRS
Humidity Test	40±2°C, 93(+2/-3) %RH, 96HRS
Temperature Cycle Testing	5 cycles with 1 cycle consisting of: -40±2°C, 30minutes Room temp., 15 minutes +90±2°C, 30 minutes Room temp.,15 minutes
Vibration Test	Test each direction of X, Y, and Z (total 0.5 hours). To-and-fro sweep time (from 10 to 55 Hz and then from 55 to 10Hz) under single amplitude of 1.0 mm for 1 minute
Drop Test	Drop 3 times from a height of 70cm onto the surface of a 10mm thick wooden board.

All specifications must be satisfied after testing.

Dimensions (Tolerance: $\pm 0.5\text{mm}$)



Packaging



NOTES:

- 1.50 PCS per box
- 2.Total 40 boxes per carton
- 3.Total 2000 PCS carton
4. Volume: $48 \times 28.5 \times 32.5\text{cm}$

Specifications Revisions

Revision	Description	Date
-	Released from Engineering	3/31/20

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.