



Data Sheet AT-1620-TWT-R

#### **Features:**

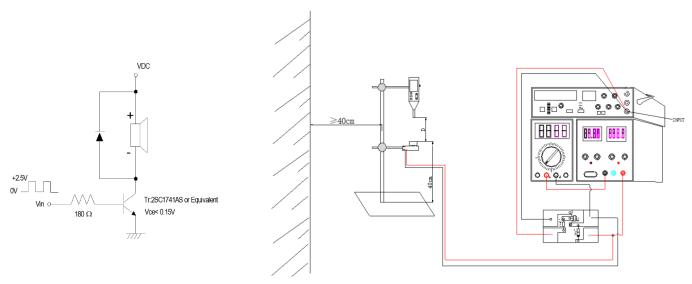
- 6V0-pk, 2048Hz Magnetic Transducer
- Pin Type
- Wave Solder and Washing Allowed

**Specifications** 

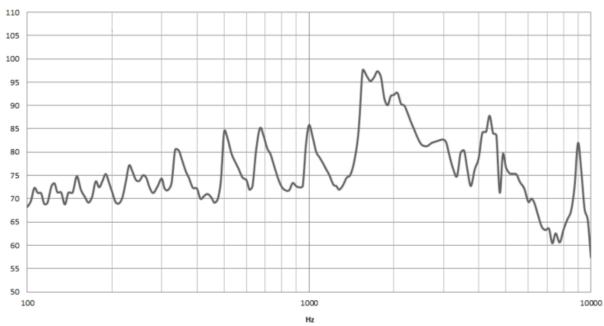
Parameters	Values	Units	
Rated Voltage	6	V0-p	
Operating Voltage Range	4 ~ 8	V0-p	
Current Draw at Rated Voltage	40(Max.)	mA	
Coil Resistance	50 ± 5	Ohms	
Minimum SPL @ 10cm	90	dBA	
Resonant Frequency	2,048 ± 500	Hz	
Housing Material	NORYL	-	
Terminal Material	Sn Plated Copper	-	
Weight	2	Grams	
Acceptable Soldering Methods	Hand Solder, Wave Solder	See following pages for details	
Environmental Compliances	RoHS/REACH	-	
Storage Temperature	-40 ~ +85	°C	
Operating Temperature	-30 ~ +70	°C	

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

Standard Test Fixture (Distance: 10cm, 6Vpk, 2048Hz square wave)



## Typical Frequency Response (6Vpk, 2048Hz square wave, 10cm)

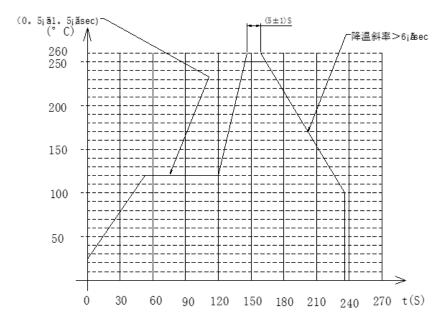


**Reliability Testing** 

Renability Testing			
Type of Test	Test Specifications		
High Temperature Test	96 hours at +85°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		
Temperature Cycle Testing	+85℃ +20℃ +20℃ +20℃ +20℃ +20℃ +20℃ Test for 5 cycles without applying power, then expose to room temperature for 2 hours		
Vibration Test	9. 3g Amplitude: 1. 5mm Time: lmin/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		

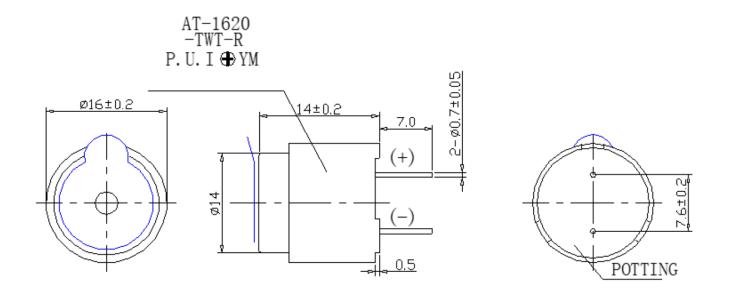
After these tests, the piece should test within  $\pm$  5dB of the original SPL

### **Recommended Wave Solder Profile**

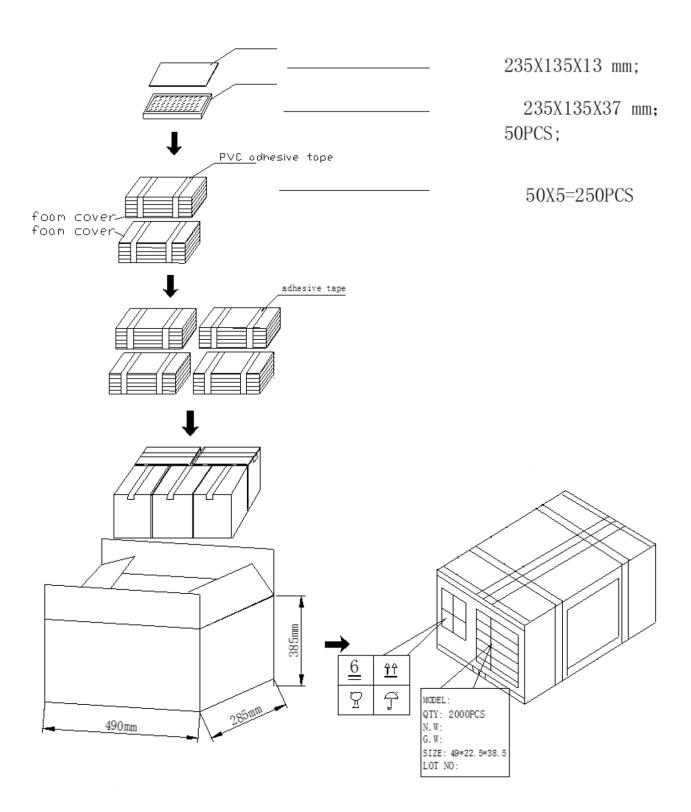


\*Manual Soldering Temp 350C, Soldering Time < 3 Seconds

### **Dimension**



# **Packaging**



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**Specification Revisions** 

Revision	Description	Date	Approved
-	RELEASED FROM ENGINEERING	09/24/2004	-
Α	REMOVED LEAD FREE ADDED ROHS	08/10/2005	-
В	REVISED TERMINAL MATERIAL	03/21/2006	-
С	REVISED TO 3D DRAWING TEMPLATE	10/15/2007	BR
D	REVISED MIN SPL LEVEL	02/24/2014	BR
Е	REVISED TEMPERATURES AND WEIGHT	02/19/2020	ML
F	Update Spec Format and Drawing Image, 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  $\pm 0.5$ mm and angles are  $\pm 3^{\circ}$ .
- 2. Specifications subject to change or withdrawal without notice.