



PUIaudio



Data Sheet	AT-1427-ST-R
------------	--------------

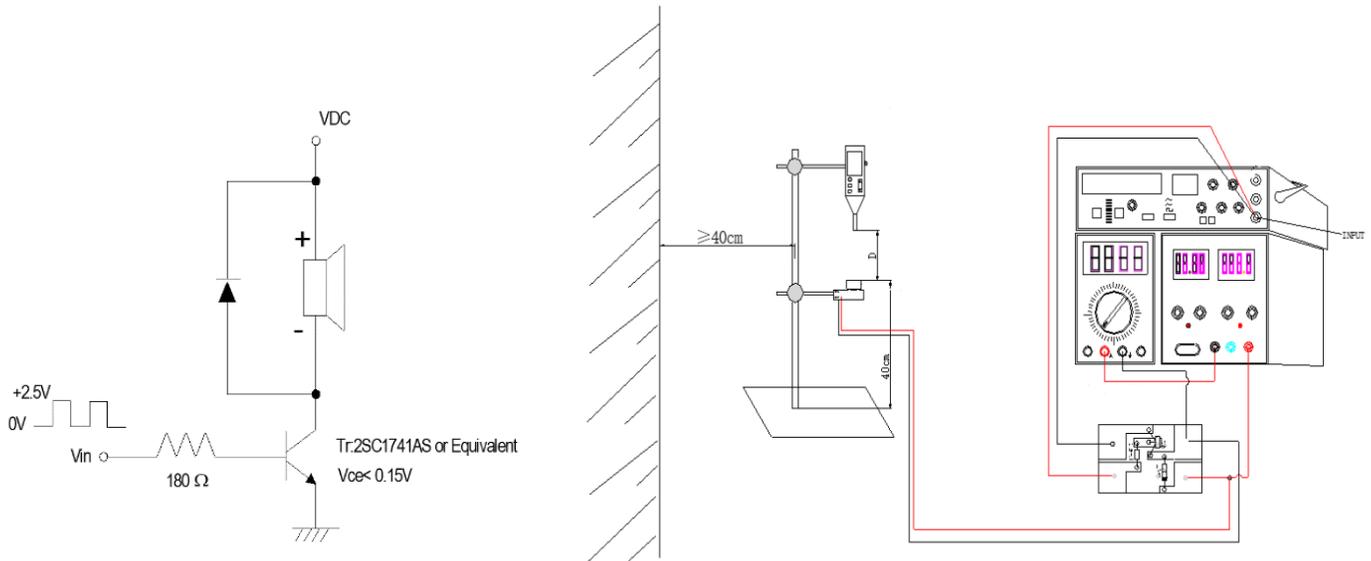
Specifications

Parameters	Values	Units
Rated Voltage	1.5	V0-p
Operating Voltage Range	1 ~ 3	V0-p
Current Draw at Rated Voltage	70	mA
Coil Resistance	6.5 ± 1	Ohms
Minimum SPL @ 10cm	88	dBA
Resonant Frequency	2731 ± 500	Hz
Housing Material	NORYL	-
Terminal Material	Sn Plated Cu	-
Weight	2	Grams
Acceptable Soldering Methods	Wave Solder/Hand Solder	See Info
Environmental Compliances	RoHS/REACH	-
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-30 ~ +70	°C

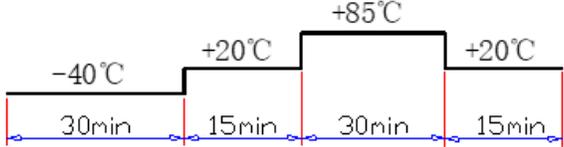
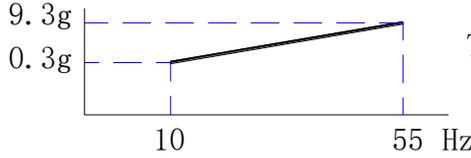
***Washing not allowed**

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

Standard Test Fixture (Distance: 10cm, 1.5V0-p, 2731 Hz square wave)

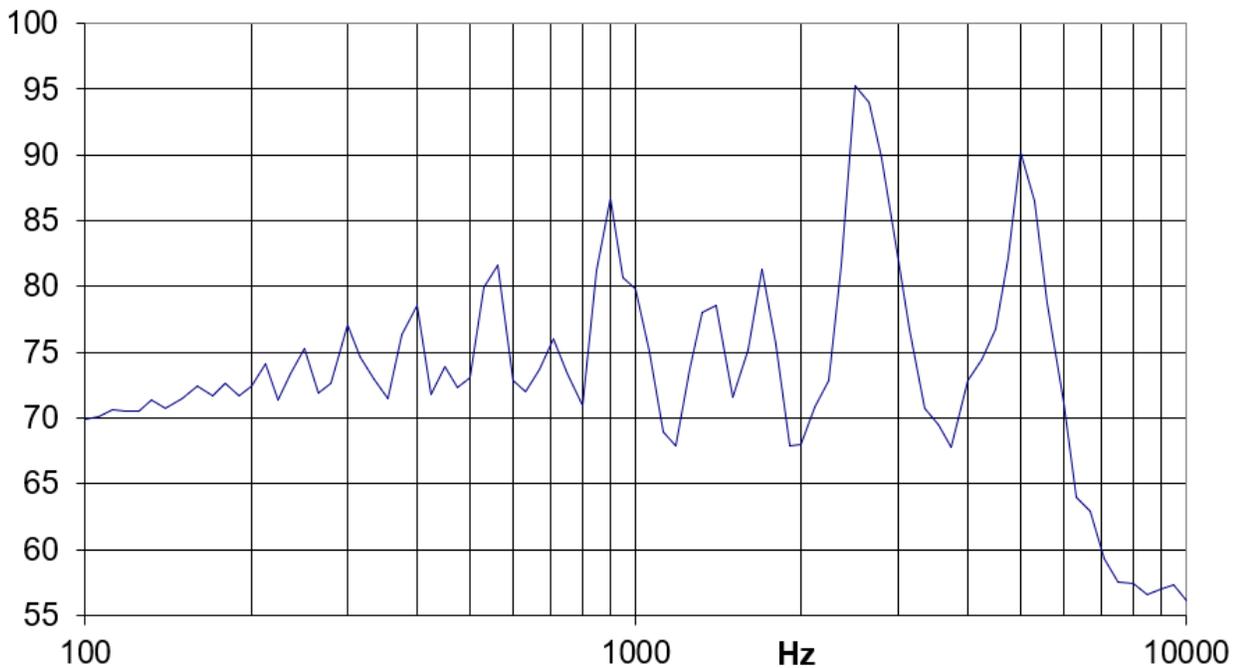


Reliability Testing

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	 <p>Test for 5 cycles without applying power, then expose to room temperature for 2 hours</p>
Vibration Test	 <p>Amplitude: 1.5mm Time : 1min/axis</p> <p>In X,Y,Z directions for 2 hours each (6 hours total)</p>
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

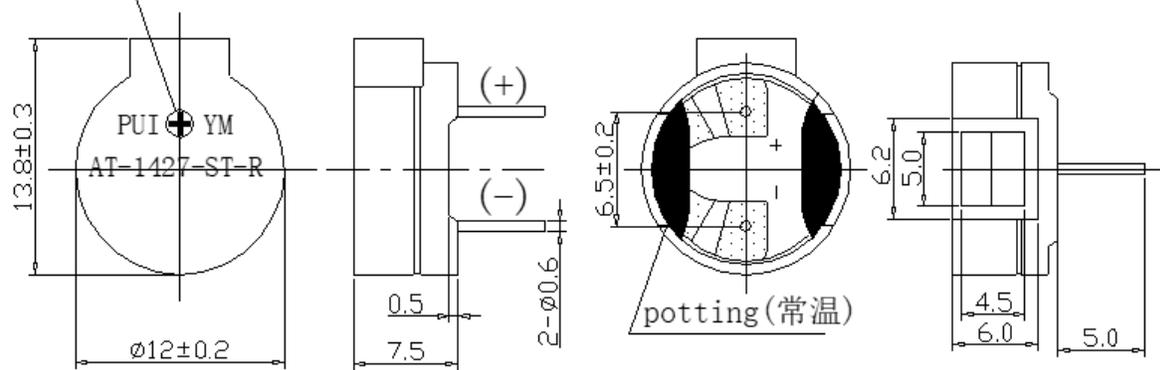
Typical Frequency Response (1.5vpk, 10cm)



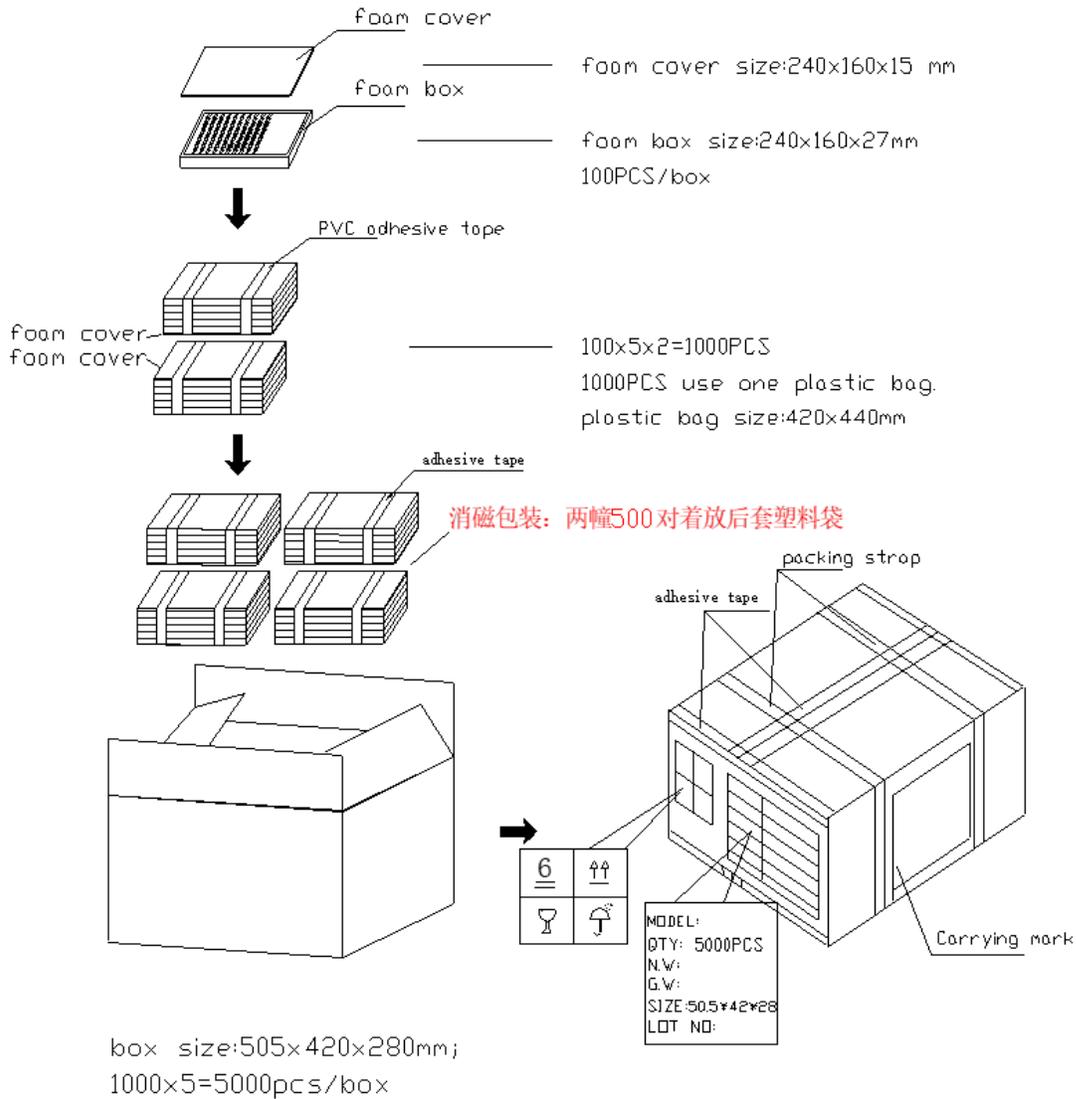
Dimensions

顶激光刻字: PUI ⊕ YM
 AT-1427-ST-R

(日期代码格式: YM=年月, A-L代表月, 如: 180)



Packaging



Specifications Revisions

Revision	Description	Date
-	RELEASED FROM ENGINEERING	11/02/2005
A	Revised Pin Diameter Tolerance	06/30/2008
B	Added Drive Circuit	02/17/2009
C	Revised to Inventor 3D Template	04/16/2009

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.