



Data Sheet	Insert PUI Audio Part Number
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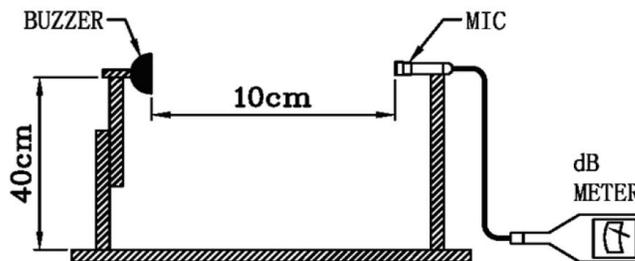
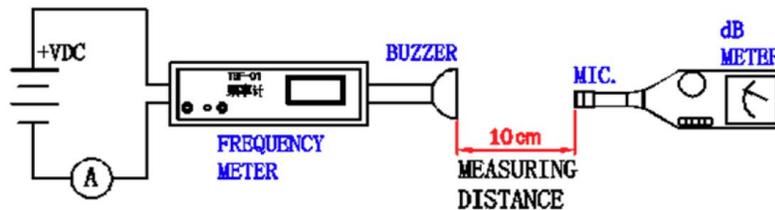
**Features:**

- Wide 6 to 16 VDC operating voltage range
- Includes removable wash tab
- Small 12mm diameter with high 85 dB @ 10cm output

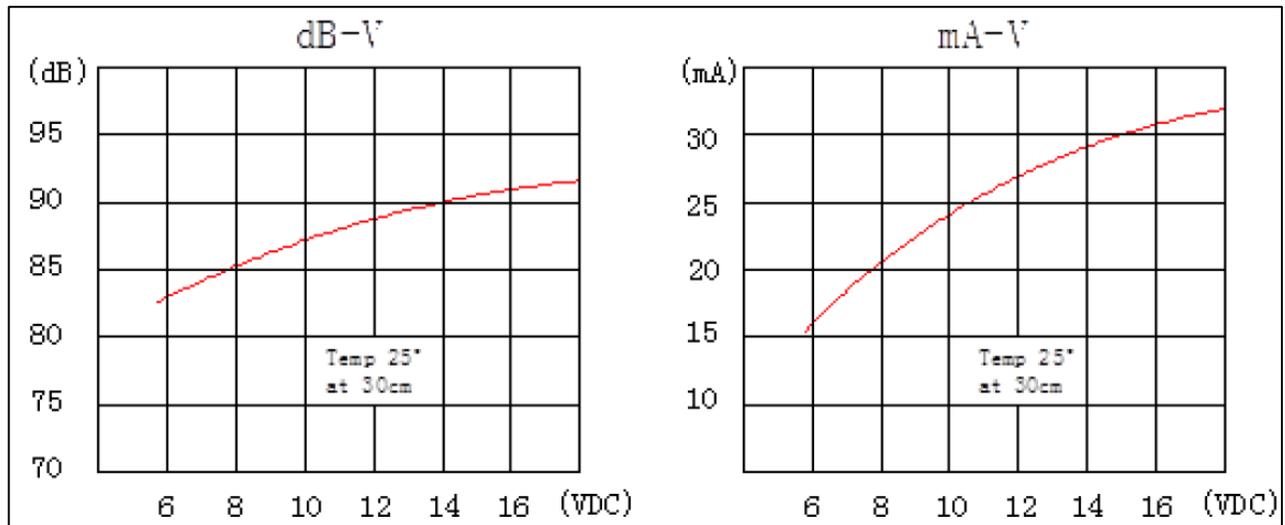
**Specifications**

Parameters	Values	Units
Rated Voltage	12	VDC
Operating Voltage Range	6 ~ 16	VDC
Current Draw at Rated Voltage	30	mA
Minimum SPL @ 10cm	85	dBA
Resonant Frequency	2,300 ±300	Hz
Tone or Pulse Rate	Continuous Tone	-
Housing Material	PBT	-
Terminal Material	Gold-plated Brass	-
Weight	2	Grams
Acceptable Soldering Methods	Hand Solder, Wave Solder	See page 2 for soldering information
Environmental Compliances	RoHS/REACH	-
Storage Temperature	-30 ~ +80	°C
Operating Temperature	-20 ~ +70	°C

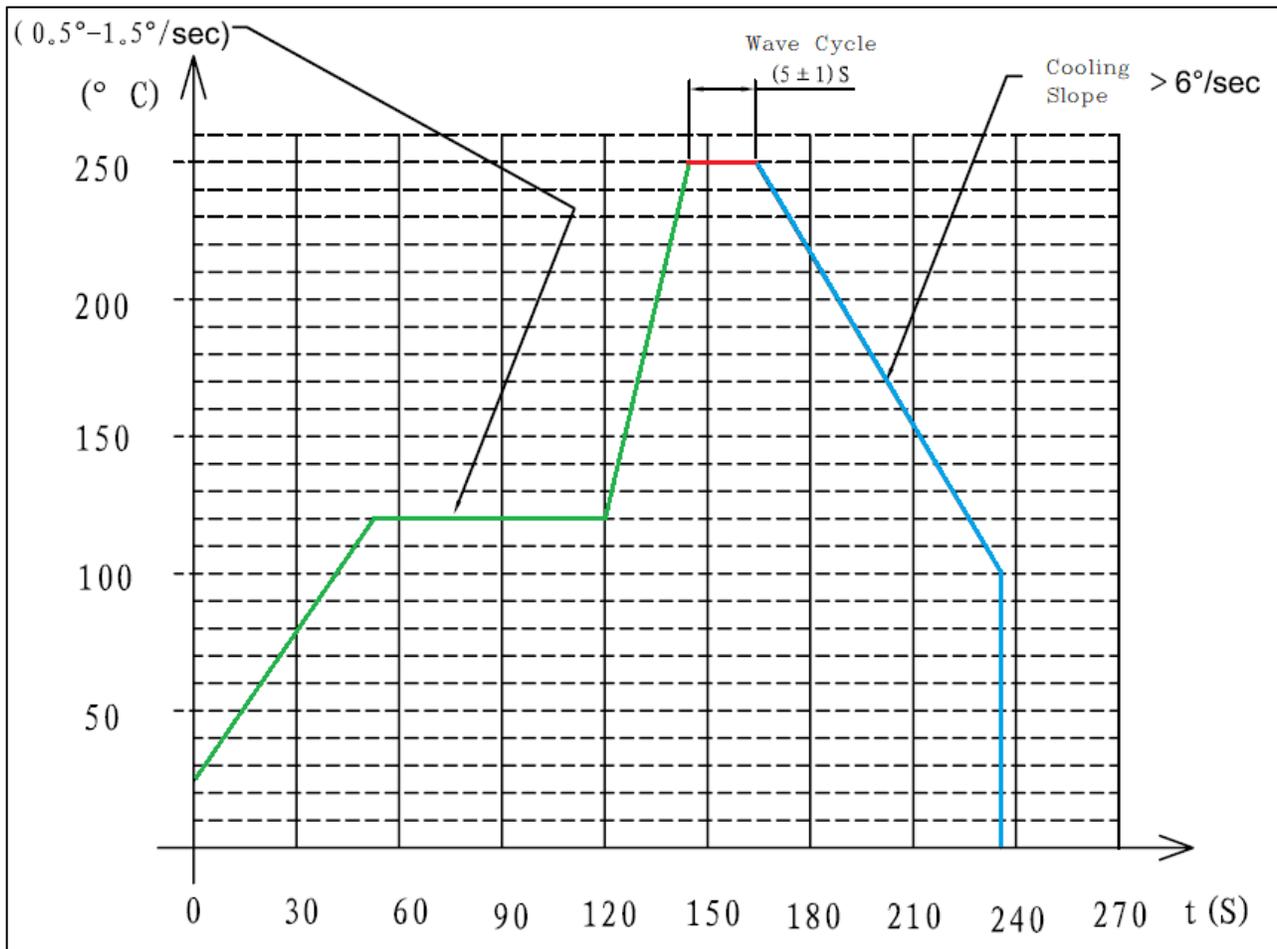
**Measurement Method**



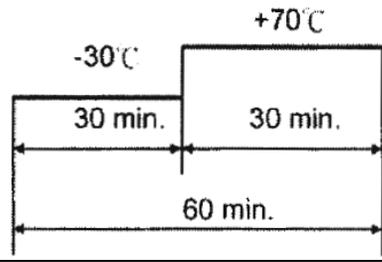
## Typical SPL and Current Draw vs Input Voltage



## Recommended Wave Soldering Procedure

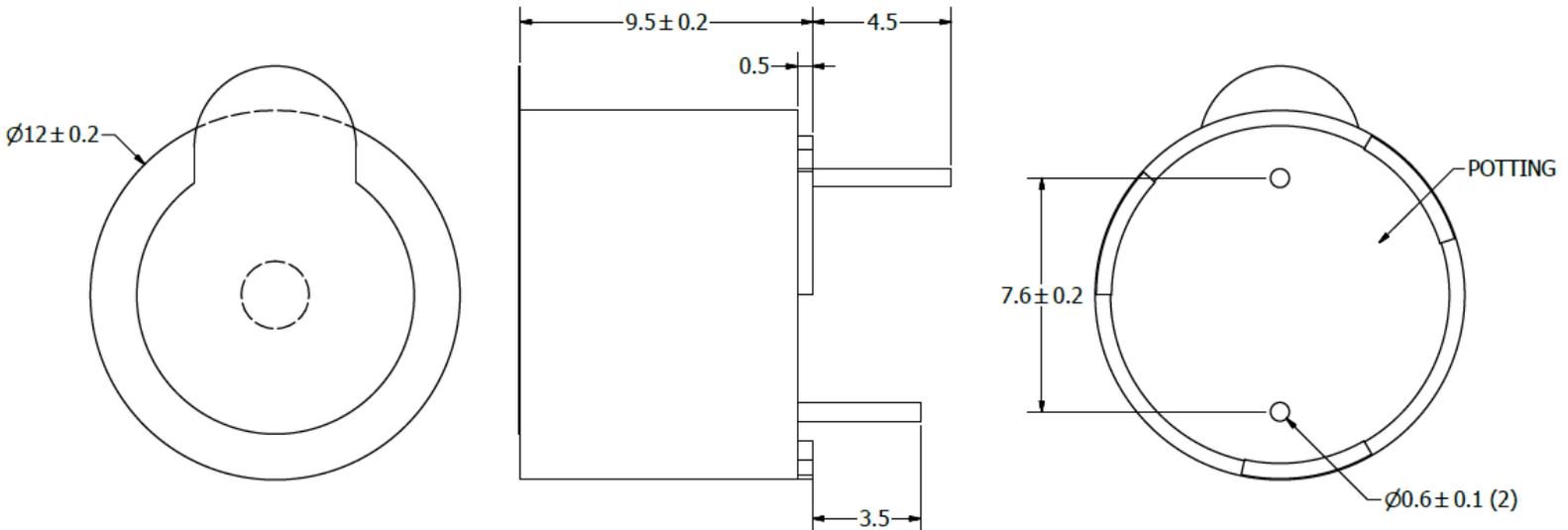


## Reliability Testing

Type of Test	Test Specifications
High Temperature Test	96 hours at 80°C
Low Temperature Test	96 hours at -30°C
Humidity Test	96 hours at 40°C with relative humidity at 98%
Temperature Cycle Testing	<p>The part is subjected to 10 cycles of the following test cycle:</p> 
Vibration Test	The part is subjected to a vibration amplitude of 1.5mm with 10 to 55 Hz vibration frequency to each of the 3 axes (X, Y, Z) for 2 hours each.
Drop Test	The part is dropped from a height of 75 cm onto a 40mm thick wood board 3 times in each of the 3 axes (X, Y, Z) for a total of 9 drops.

After each test, the part shall meet specifications without any damage to appearance or performance. SPL shall be  $\pm 10$  dB when compared to the initial measurement.

## Dimensions (4.5mm long pin is positive, polarity is also indicated on the wash tab)



**Specifications Revisions**

<b>Revision</b>	<b>Description</b>	<b>Date</b>
-	Released from Engineering	6/25/2014
A	Revised Operating Voltage Range	3/16/2021

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.
3. This part is ROHS 2015/863/EU compliant. (Exemption 7c-1 for piezo type).