



# PUIaudio



Data Sheet

AI-4228-P-C120-R

## Features:



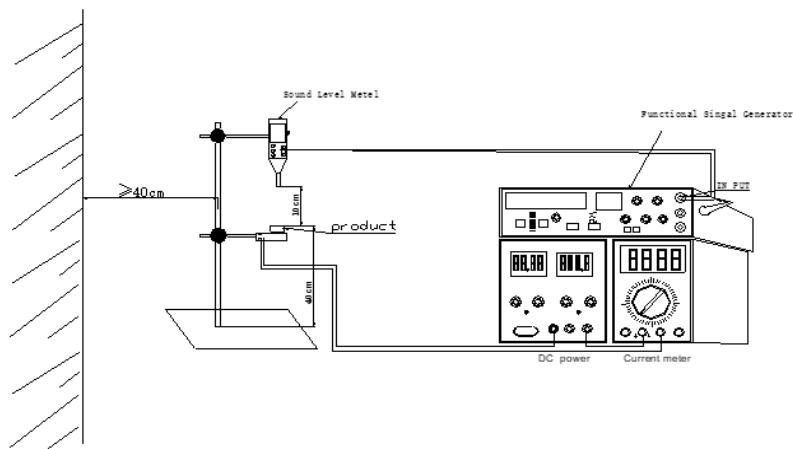
- Piezo Indicator
- 110VAC/DC rated, 2800Hz
- Top-Firing Panel Type

## Specifications

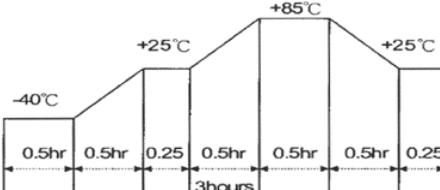
Parameters	Values	Units
Rated Voltage	110	VAC/DC
Operating Voltage Range	30 ~ 120	VAC/DC
Current Draw at Rated Voltage	20 max.	mA
Current Draw Range	5 ~ 25 max.	mA
Minimum SPL @ 10cm(60cm)	91.5(76)	dBA
Resonant Frequency	2,800 ± 500	Hz
Tone or Pulse Rate	Continuous	-
Housing Material	Nylon	-
Terminal Material	Sn Plated Bronze	-
Weight	41	Grams
Acceptable Soldering Methods	Hand Solder	-
Environmental Compliances	RoHS/REACH	Ex. 7c-1
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-30 ~ +85	°C

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

Standard Test Fixture (Distance: 10cm, 110VDC)

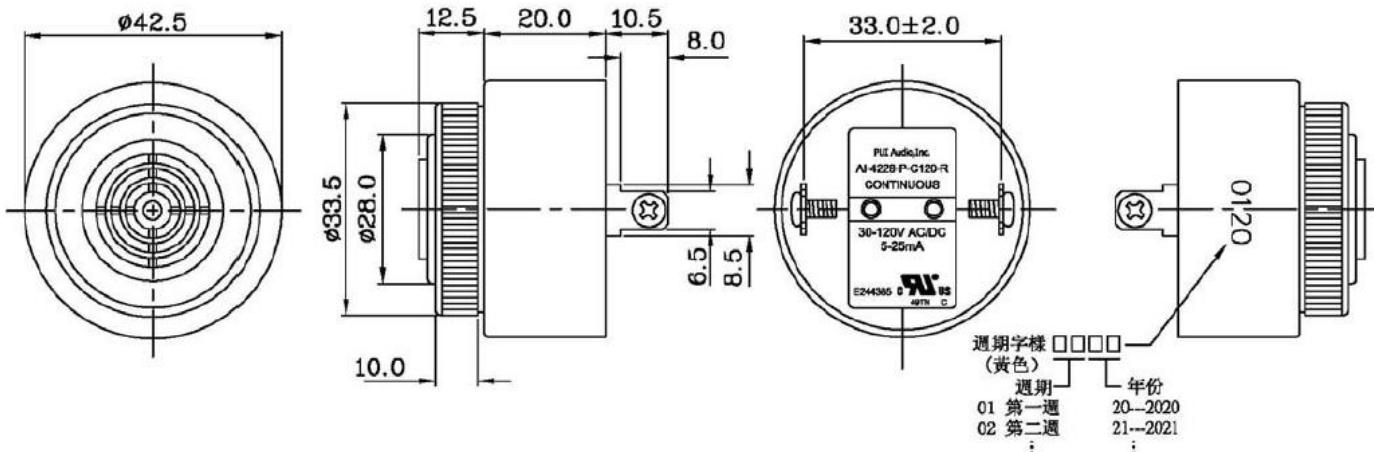


## Reliability Testing

Type of Test	Test Specifications
High Temperature Test	Test chamber for 240 hours at +85°C, then rest at room temperature for 4 hours.
Low Temperature Test	Test chamber for 240 hours at -40°C, then rested at room temperature for 4 hours.
Humidity Test	Test chamber for 240 hours at +40°C with relative humidity at 90±5%, then rested at room temperature for 4 hours.
Temperature Cycle Testing	 <p>Test repeated 5 times, then rest at room temperature for 4 hours.</p>
Vibration Test	1.5mm amplitude vibration with 10~55Hz band of vibration frequency for 2 hours. Repeat test in X, Y, Z directions (total 6 hours).
Drop Test	Free drop a unit from the height 75cm to the surface of 40mm thick board, three times. Repeat test in X, Y, Z directions (total 9 times).
Life Test	<p>Apply rated voltage for 250 hours continuously at +85°C.</p> <p>Apply intermittent 1 minute on / 5 minutes off 10,000 times at room temperature of 25C.</p>

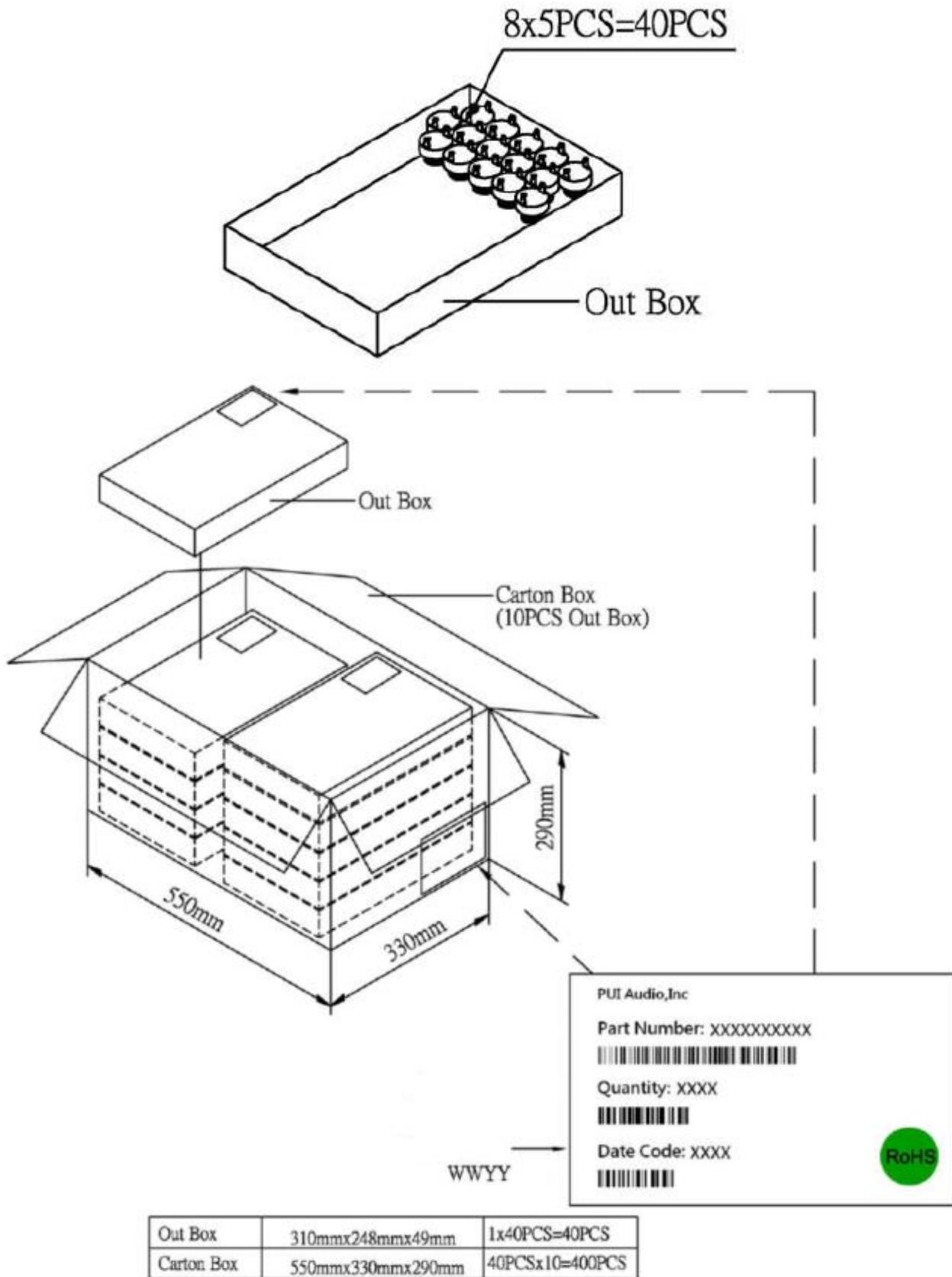
After Tests, part shall be within  $\pm 10\text{dB}$  of stated value.

## Dimensions



Tol:  $\pm 0.5$    Unit: mm

## Packaging



**Specifications Revisions**

<b>Revision</b>	<b>Description</b>	<b>Date</b>	<b>Approved</b>
-	RELEASED FROM ENGINEERING	06/21/2006	-
A	REVISED TO INVENTOR 3D DRAWING TEMPLATE	02/26/2008	BR
B	Update Spec Format, Add details for Reliability, Packaging, etc. Add Current Draw Range, Revised SPL value	01/23/2025	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.