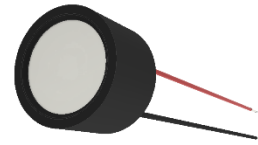




PUIaudio



Data Sheet

AI-1450-T-WP-LW80-R

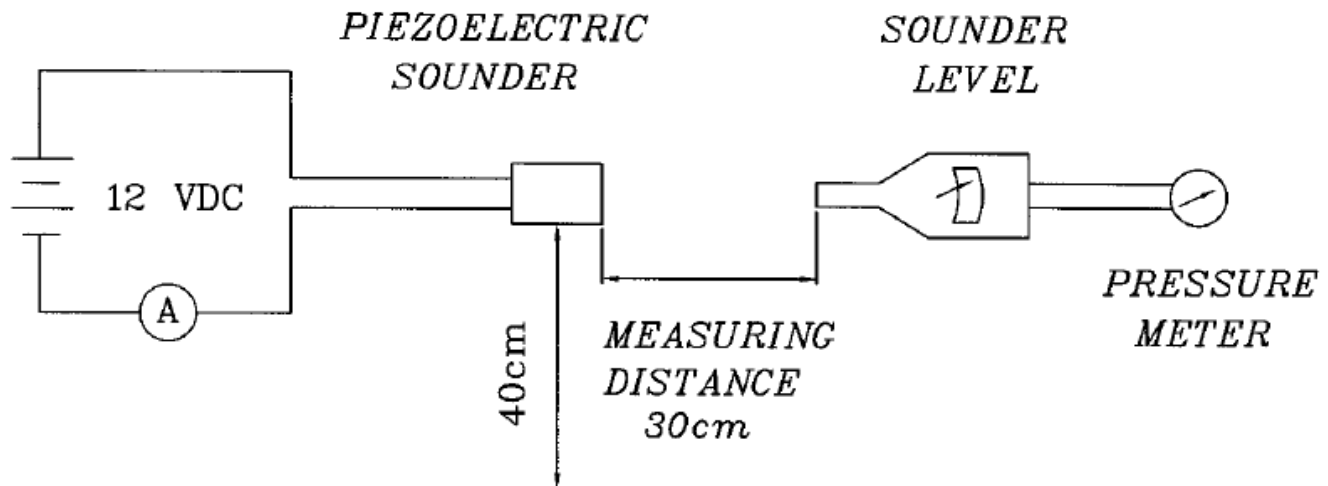
Features

- IP67 Rated Piezo Indicator
- Lead wires for easy installation
- 5,000 Hz Resonant Frequency

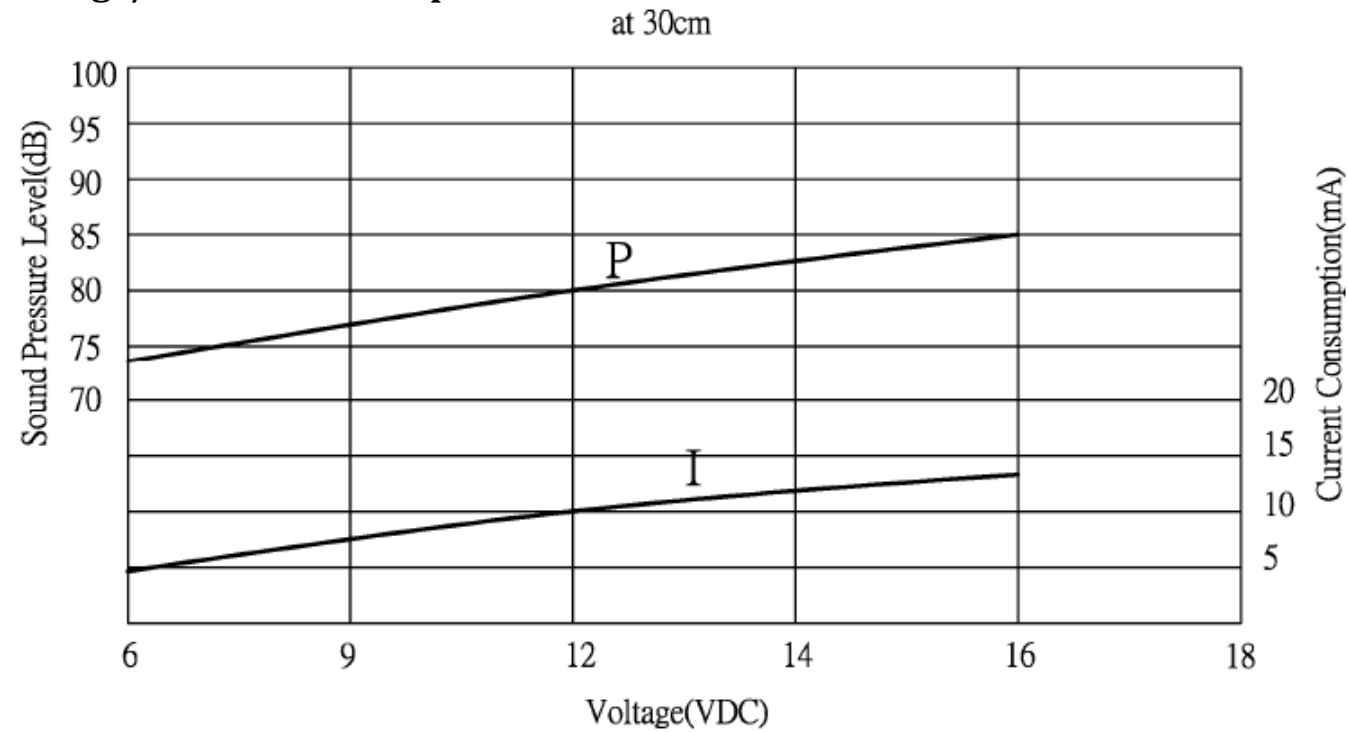
Specifications

Parameters	Values	Units
Rated Voltage	12	V _{DC}
Operating Voltage Range	9 ~ 16	V _{DC}
Current Draw at Rated Voltage	35	mA
Minimum SPL @ 30cm	80	dBA
Resonant Frequency	5,000 ± 500	Hz
Tone or Pulse Rate	Continuous	-
Housing Material	ABS	-
Terminal Material	Lead Wire	-
Weight	10	Grams
Acceptable Soldering Methods	Hand Solder	-
Environmental Compliances	ROHS/REACH	Ex. 7c-1
Storage Temperature	-40 ~ +95	°C
Operating Temperature	-30 ~ +85	°C
IP Rating	IP67	-

Measurement Method



Voltage/Current Consumption



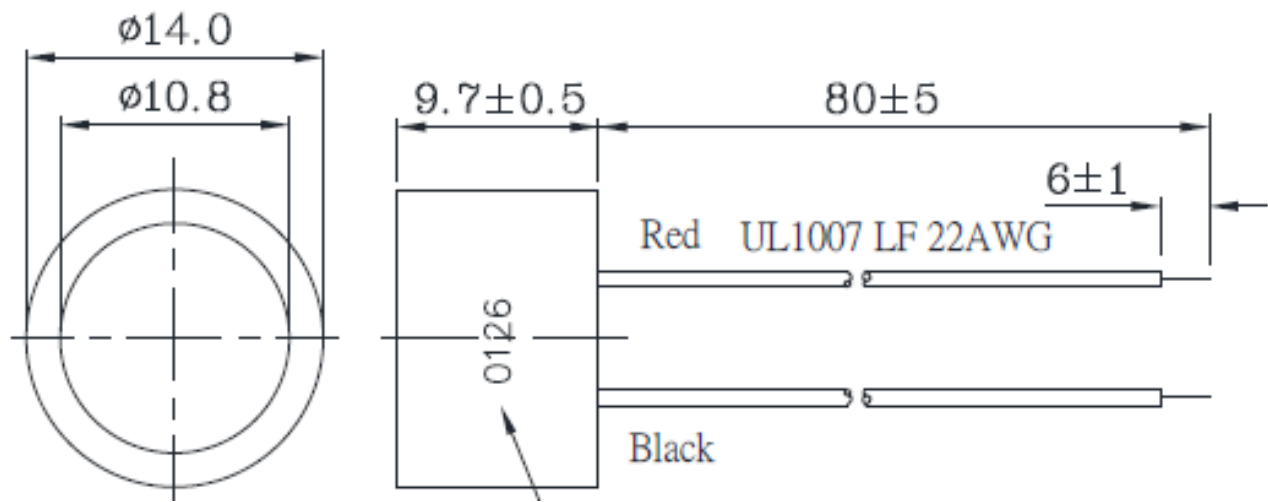
Reliability Testing

Type of Test	Test Specifications
High Temperature Test	240 hours at 95°C. Let it stand in room condition for 4 hours before testing.
Low Temperature Test	240 hours at -40°C. Let it stand in room condition for 4 hours before testing.
Humidity Test	240 hours at 40°C with relative humidity at 90-95%. Let it stand in room condition for 4 hours before testing.
Temperature Cycle Testing	Subject part to 5 cycles of test as shown above.
Vibration Test	Apply vibration amplitude of 1.5mm with 10-55Hz band vibration frequency to each XYZ directions for 2 hours.
Drop Test	Drop onto wooden board 40mm thick 3 times in each of the X, Y, and Z (total of 9 drops).
Operating life test	Continuous life test 48 hours of continuous operation at +70°C with rated voltage applied. Intermittent life test

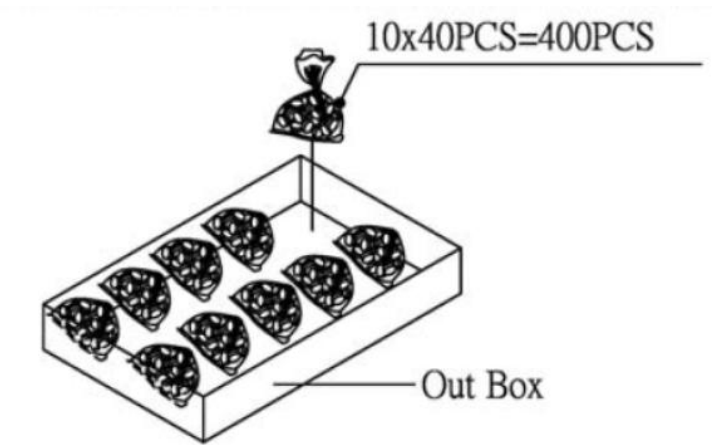
	Cycle of 1 minute on, 1 minute off at +25°C, at rated voltage. Minimum of 5000 cycles. After resting for 4 hours at +25°C, the oscillation frequency and current consumption should be within 10% of the original value, and the dB SPL output should be within 13dB of the original value
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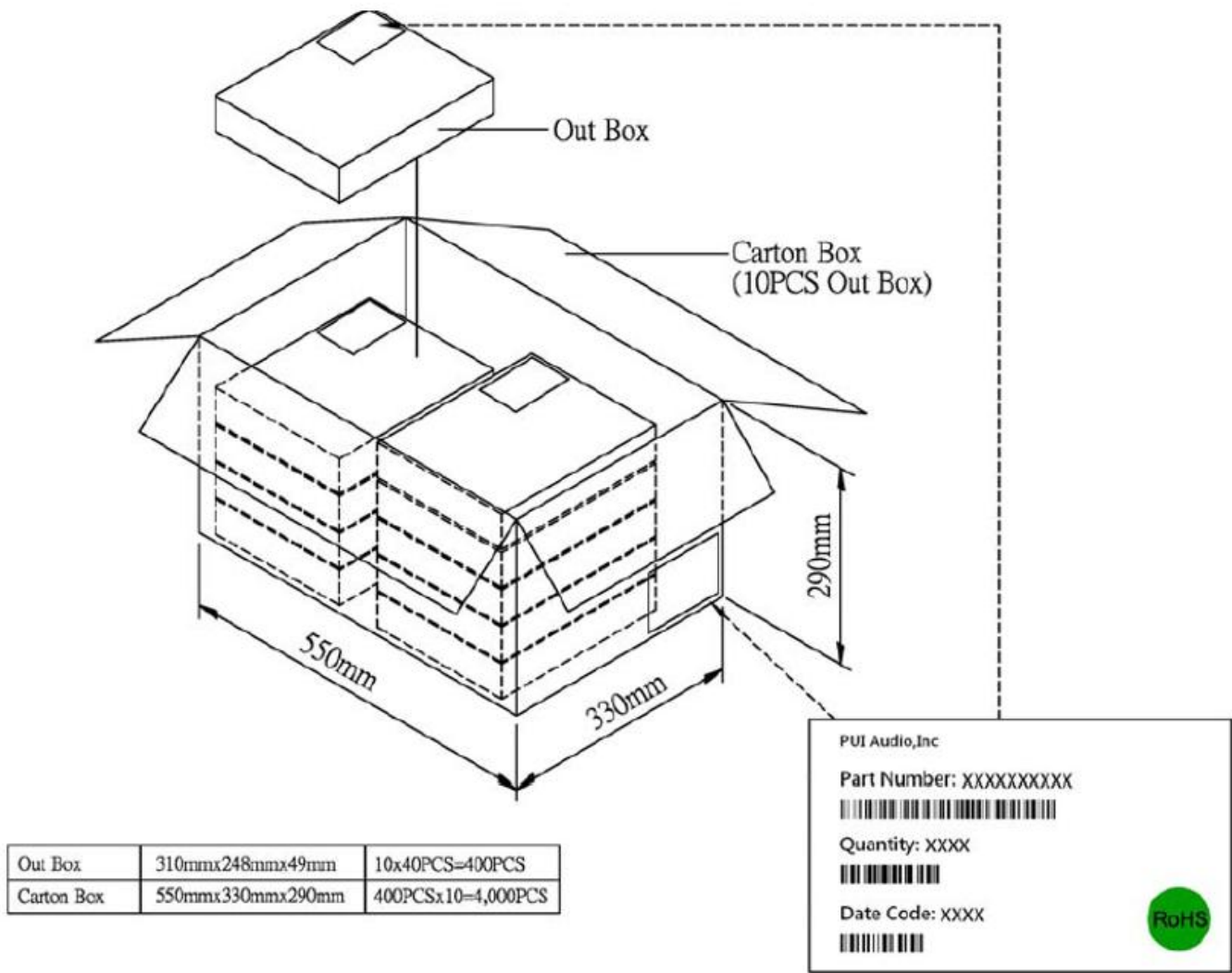
Part shall test within ±10dB SPL.

Dimensions



Packaging





Specifications Revisions

Revision	Description	Date	Approved
A	Released from Engineering	07/06/2021	-
B	Update Format Layout	08/09/2024	ML
C	Updated Height	7/22/2026	JL

- Note:
- Unless otherwise specified:
 - All dimensions are in millimeters.
 - Default tolerances are $\pm 0.5\text{mm}$ and angles are $\pm 3^\circ$.
 - Specifications subject to change or withdrawal without notice.