



# PUIaudio



Data Sheet

AI-3435-TF-LW140-R

## Features:

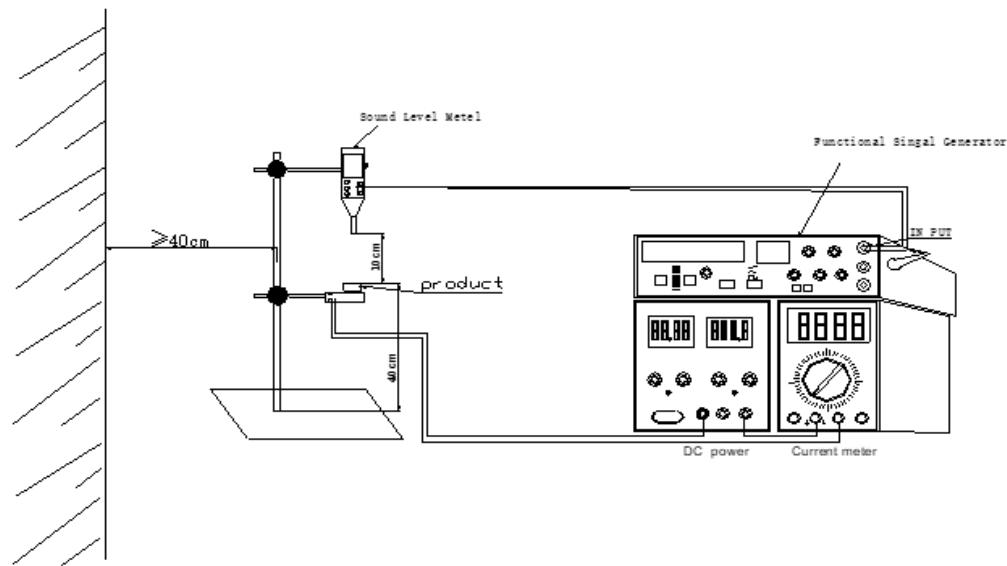
- Piezo Indicator
- 12VDC rated, 4000Hz
- Top-Firing Thru-Hole Type

## Specifications

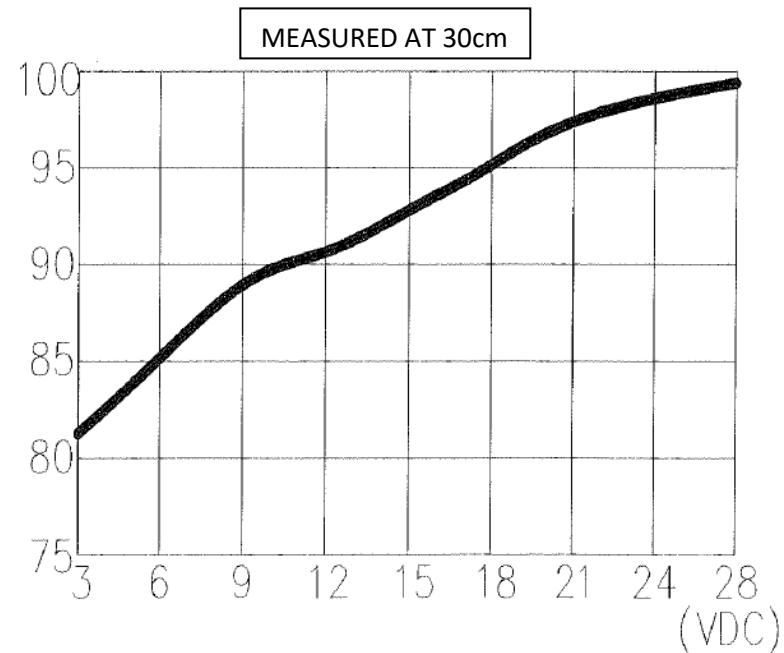
Parameters	Values	Units
Rated Voltage	12	VDC
Operating Voltage Range	3 ~ 28	VDC
Current Draw at Rated Voltage	6(MAX)	mA
Minimum SPL @ 10cm (30cm)	96(86)	dBA
Resonant Frequency	3,500 ± 500	Hz
Tone or Pulse Rate	Continuous	-
Housing Material	ABS	-
Terminal Material	Lead Wires	UL1007LF 24AWG
Weight	10.2	Grams
Acceptable Soldering Methods	Hand Solder	-
Environmental Compliances	RoHS/REACH	7c-1
Storage Temperature	-40 ~ +95	°C
Operating Temperature	-30 ~ +85	°C

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

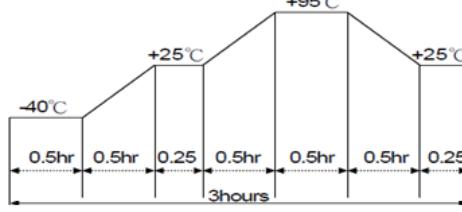
Standard Test Fixture (Distance: 10cm, 12VDC)



## Typical SPL vs Input Voltage

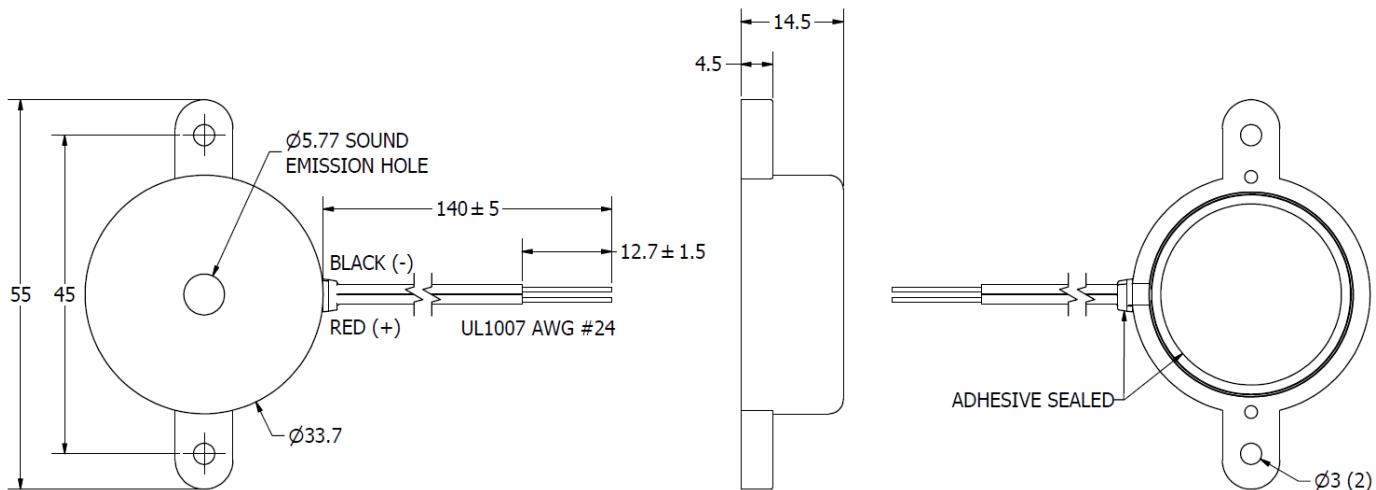


## Reliability Testing

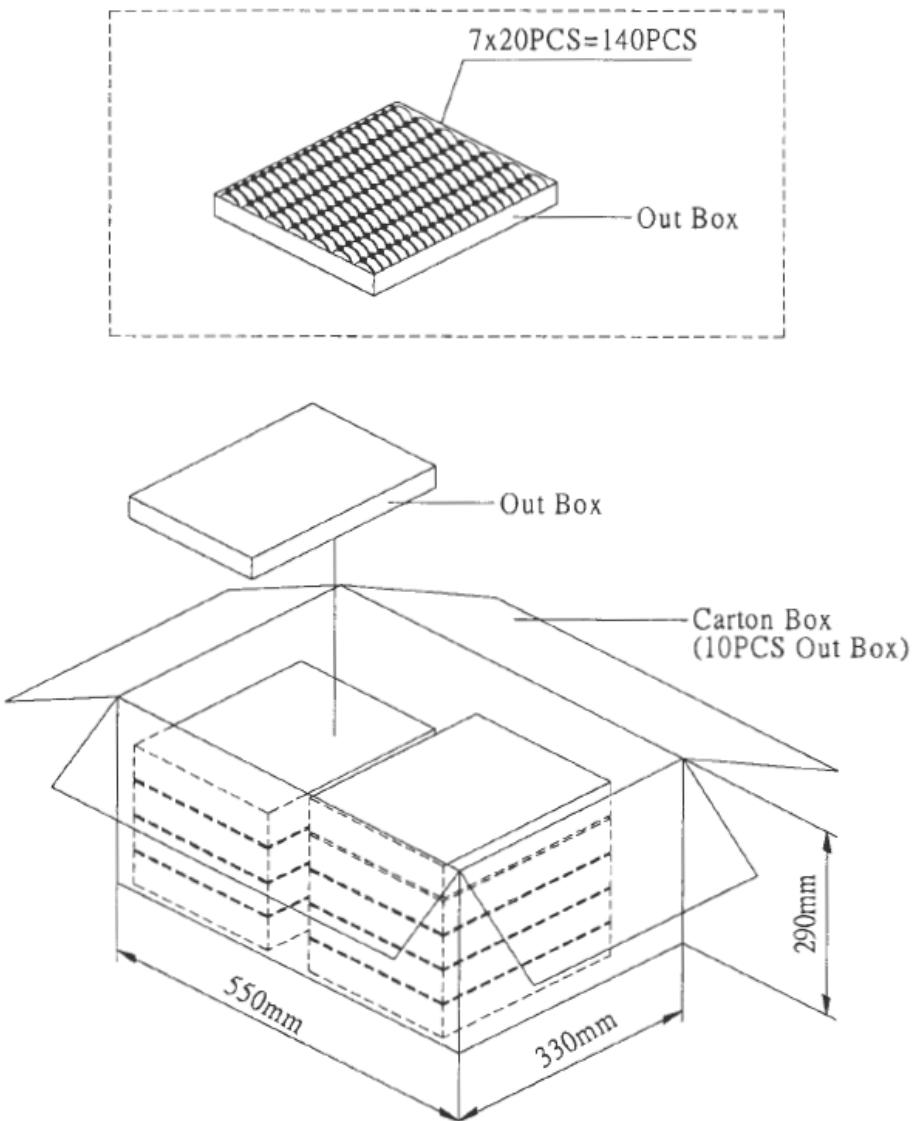
Type of Test	Test Specifications
High Temperature Test	Test chamber for 240 hours at +95°C, then rested at room temperature for 4 hours.
Low Temperature Test	Test chamber for 240 hours at -40°C, then rested at room temperature for 4 hours.
Humidity Test	Test chamber for 240 hours at +40°C with relative humidity at 90±5%, then rested at room temperature for 4 hours.
Temperature Cycle Testing	 Test repeated 5 times, then rest at room temperature for 4 hours.
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).
Solderability Test	Lead terminals immersed in rosin for 5 seconds, then in solder bath of +230±5°C for 3±1 seconds.
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).
Load Test	Apply rated voltage for 48 hours continuously at +70°C. Apply a duty cycle of 1 minute on, 1 minute off 5000 times minimum, at rated voltage and room temperature (+25±3°C).

**Call out how pass/fail conditions are determined after the reliability testing is complete**

## Dimensions



## Packaging



Out Box	310mmx248mmx49mm	1x140PCS=140PCS
Carton Box	550mmx330mmx290mm	140PCSx10=1400PCS

**Specifications Revisions**

<b>Revision</b>	<b>Description</b>	<b>Date</b>	<b>Approved</b>
-	RELEASED FROM ENGINEERING	08/15/2005	-
A	REVISED TO INVENTOR 3D DRAWING TEMPLATE	02/21/2008	-
B	Revised Current Consumption to 6mA Max at 12Vdc	05/29/2025	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.