



PUIaudio



Data Sheet	X-2629-TWT-R
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Features:

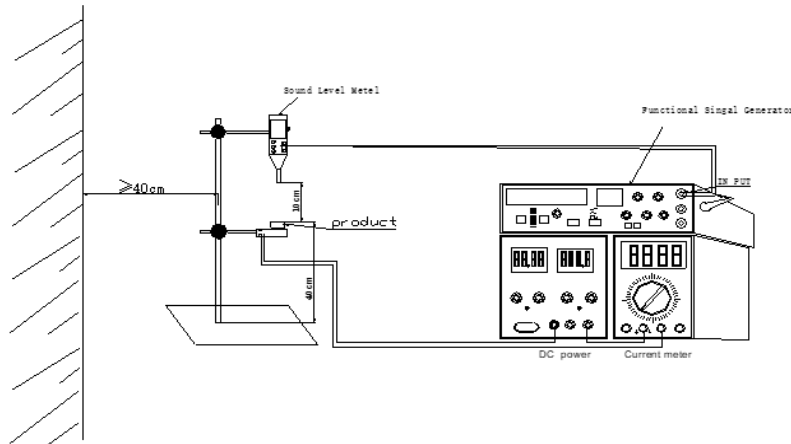
- High-Output Piezo Indicator
- 12VDC rated, 2900Hz
- Top-Firing Thru-Hole Type
- Wave Solder and Wash allowed

Specifications

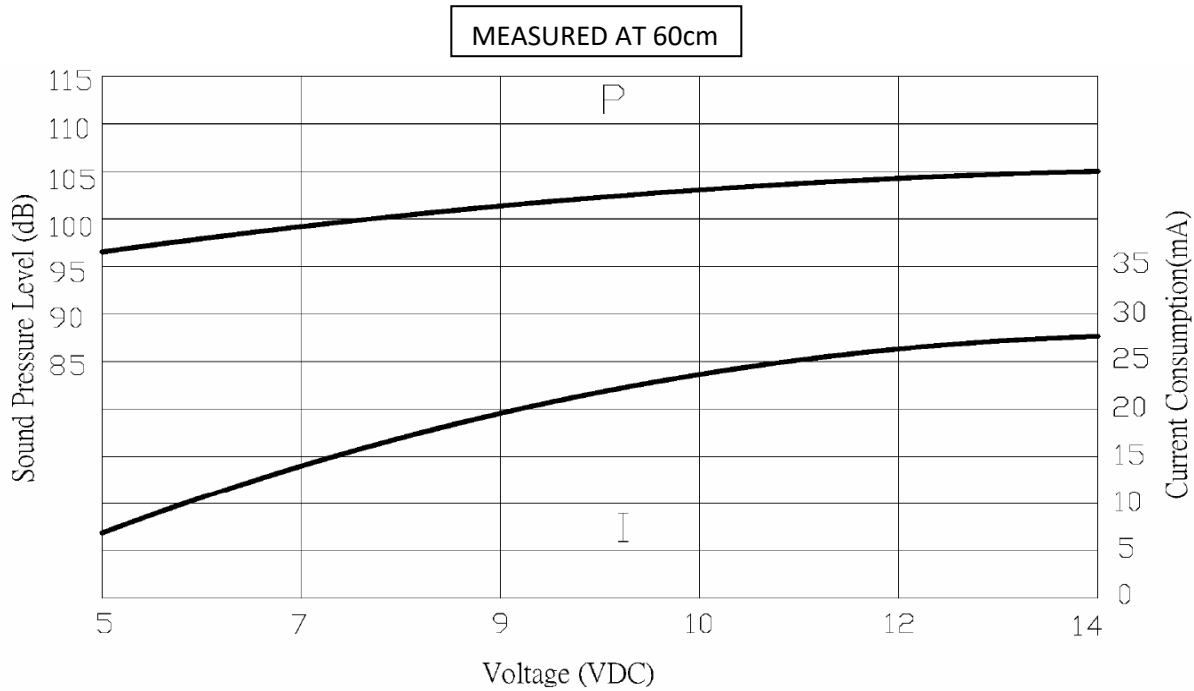
Parameters	Values	Units
Rated Voltage	12	VDC
Operating Voltage Range	5 ~ 14	VDC
Current Draw at Rated Voltage	35	mA
Minimum SPL @ 10cm	107	dBA
Resonant Frequency	2,900 ± 500	Hz
Tone or Pulse Rate	Continuous	-
Housing Material	PC	-
Terminal Material	Sn Plated Copper	-
Weight	11.5	Grams
Acceptable Soldering Methods	Hand Solder, Wave Solder	-
Environmental Compliances	RoHS/REACH	7c-1
Storage Temperature	-40 ~ +85	°C
Operating Temperature	-40 ~ +85	°C

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

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



Typical SPL vs Input Voltage



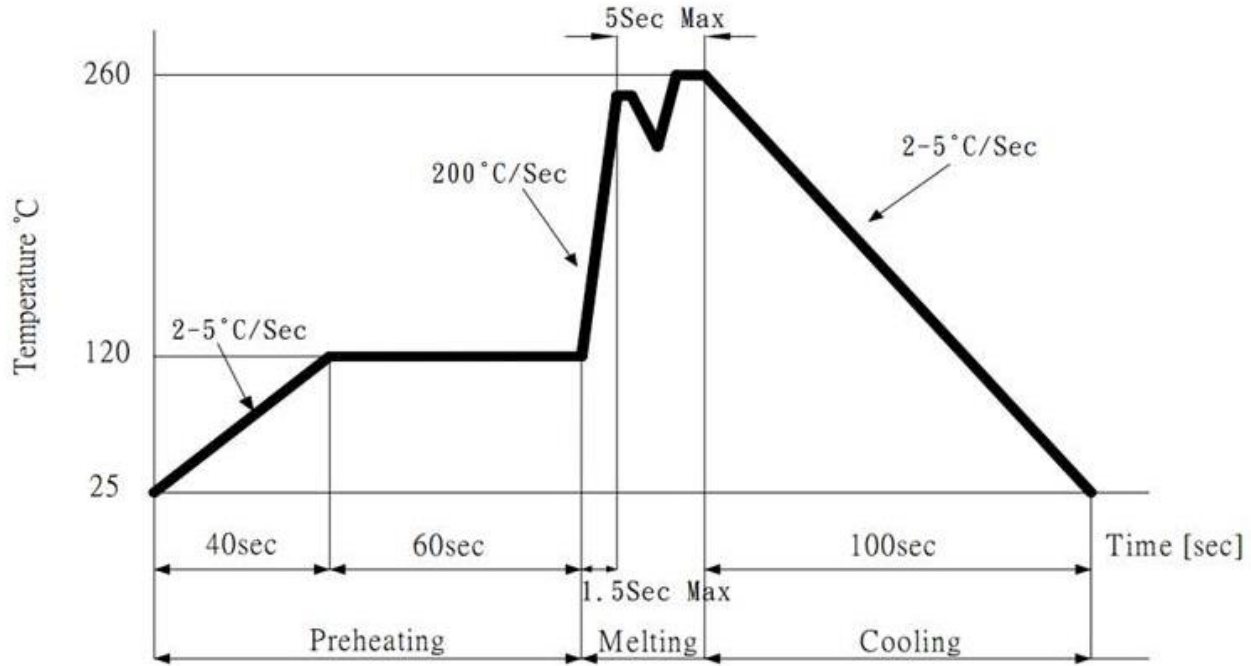
Reliability Testing

Type of Test	Test Specifications
High Temperature Test	Test chamber for 240 hours at +85°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	<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).
Solderability Test	Lead terminals immersed in rosin for 5 seconds, then in solder bath of +270±5°C for 3±1 seconds.
Soldering Heat Resistance	Lead terminals immersed up to 1.5mm from indicator body in solder bath of +300±5°C for 3±0.5 seconds or +260±5°C for 10±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).

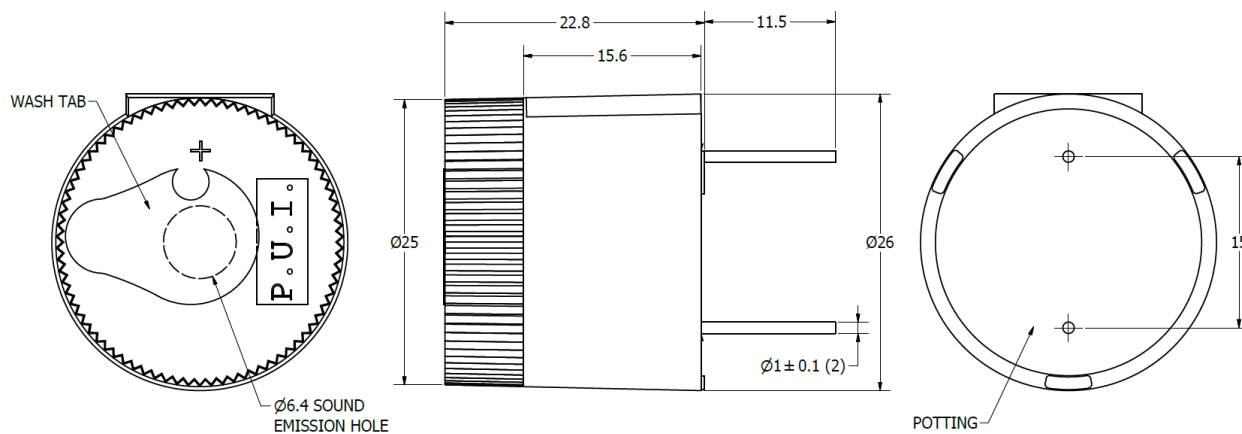
Measurements should be ±10% compared with initial after testing. SPL should be ±10 dB.

Soldering Recommendations

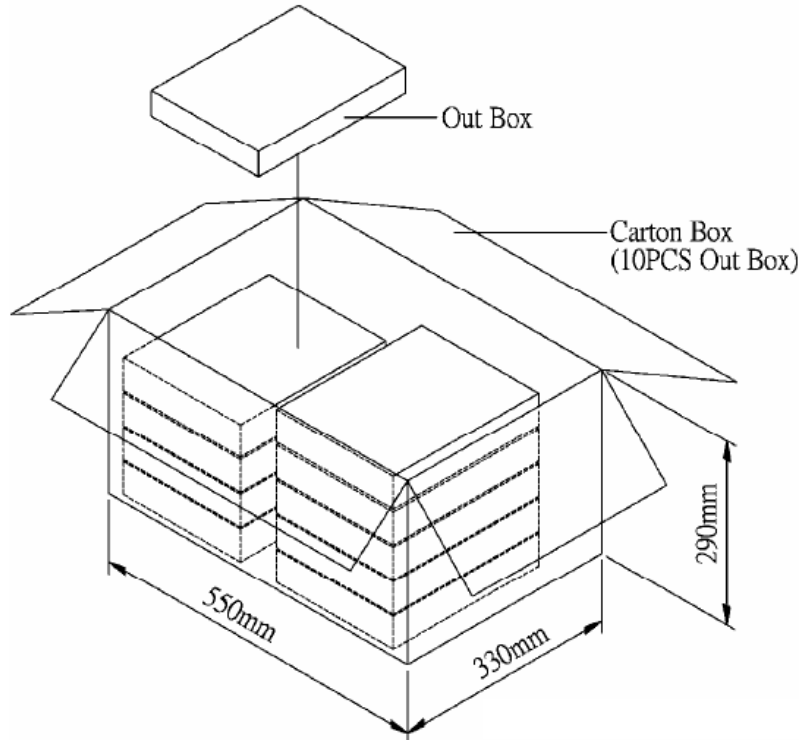
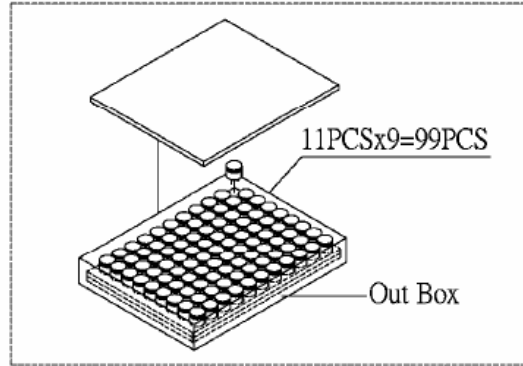
- **Manual Soldering of 330C - 380C iron temp, time 3sec per terminal**
- **Wave Soldering**



Dimensions



Packaging



Out Box	310:mmx248mmx49mm	1x99PCS=99PCS
Carton Box	550:mmx330mmx290mm	99PCSx10=990PCS

Specifications Revisions

Revision	Description	Date	Approved
-	RELEASED FROM ENGINEERING	12/28/2007	-
A	REVISED STORAGE AND OPERATING TEMPERATURES	10/23/2006	BR
B	ADDED POSITIVE TERMINAL INDICATOR	01/14/2008	BR
C	REVISED TO INVENTOR 3D DRAWING TEMPLATE	04/27/2010	BR
D	REVISED WEIGHT	02/26/2020	MV
E	Update Spec Format, Add details for Reliability, Packaging, Etc.	09/08/2023	ML

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.