

Data Sheet

SMI-1027-TW-12V-R

Features:

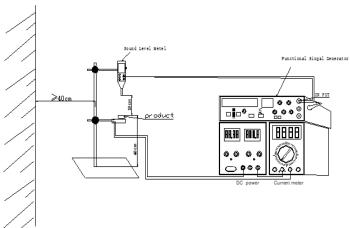
- 7 to 15 VDC voltage range with low 30 mA current draw
- 2700 Hz tone for peak perception above ambient noise
- Wide -40°C to +85°C operating temperature range
- Reflow and Washing Allowed

Specifications

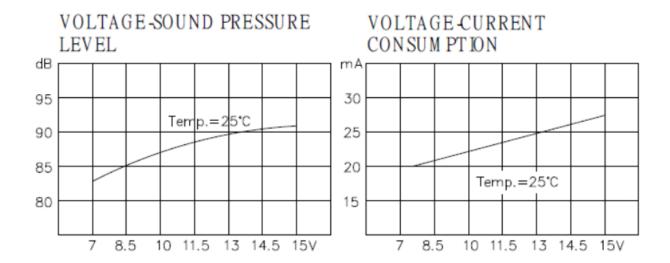
Parameters	Values	Units	
Rated Voltage	12	VDC	
Operating Voltage Range	7 ~ 15	VDC	
Current Draw at Rated Voltage (Max)	30	mA	
Minimum SPL @ 10cm	85	dBA	
Resonant Frequency	2700 ± 200	Hz	
Tone or Pulse Rate	Continuous Tone	-	
Housing Material	PPS	-	
Terminal Material	Sn Plated Brass	-	
Weight	1.5	Grams	
Moisture Sensitive Level (MSL)	2a	Less than or equal to 30C/60%RH, 4 weeks	
Acceptable Soldering Methods	Reflow Solder	See following pages for details	
Environmental Compliances	RoHS/REACH	-	
Storage Temperature	-40~+85	°C	
Operating Temperature	-40~+85	°C	

$Measurement\ Method\ {\it (Temperature: 25\pm3°C; Relative\ Humidity: 60\% \sim 70\%)}$

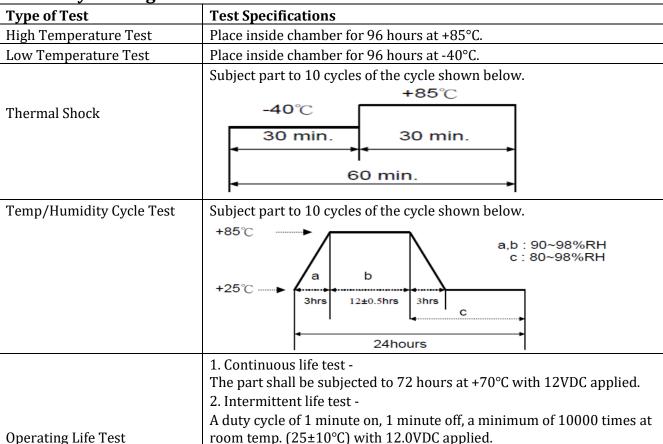
Standard Test Fixture (Distance: 10cm, 12VDC)



Typical SPL vs Voltage vs Current



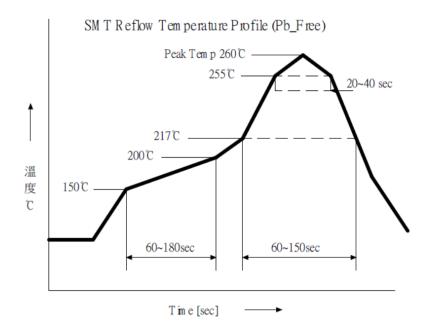
Reliability Testing



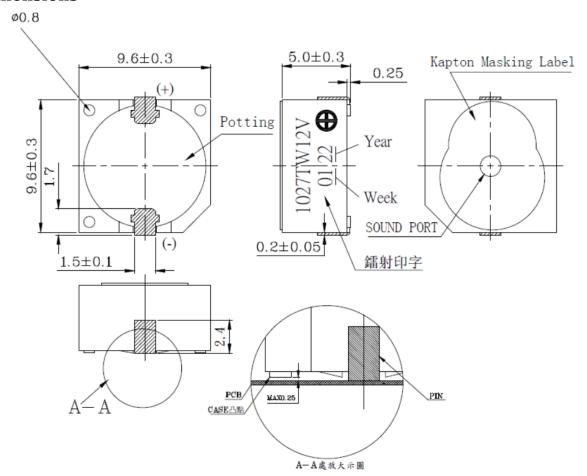
After testing, the part shall be without any degradation in appearance or performance except SPL. After 4 hours at +25°C, the SPL shall measure ± 10 dBA compared to initial measurement.

Recommended Reflow Profile

One Reflow Cycle Only

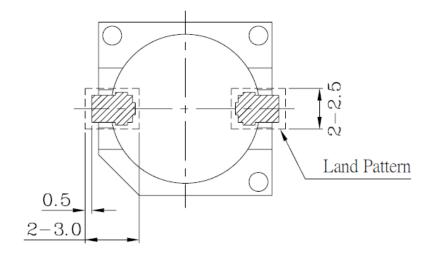


Dimensions



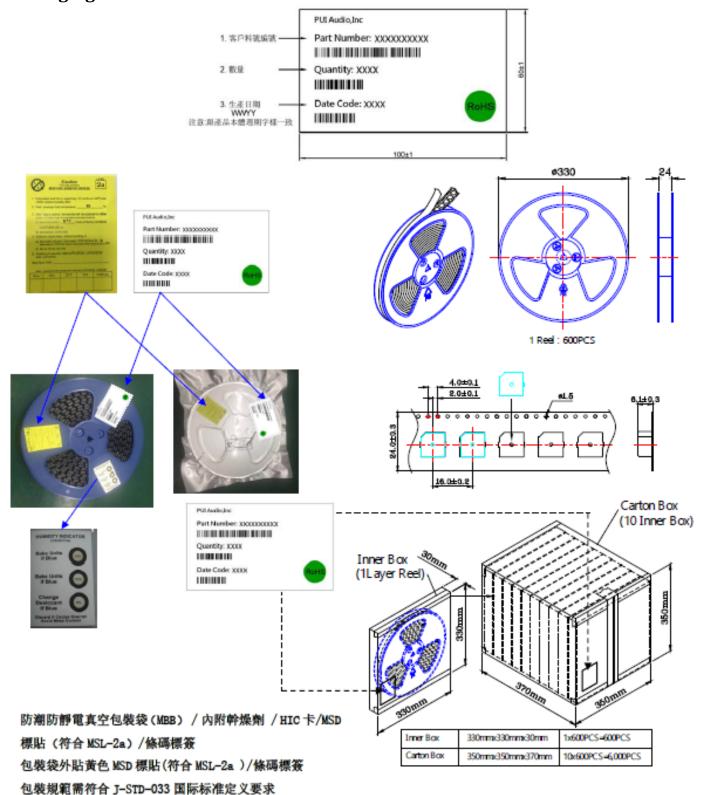
Tolerance ±0.5mm unless otherwise specified

Suggested Land Pattern*



*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

Packaging



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Specifications Revisions

Revision	Description	Date	Approved
-	Released from Engineering	11/11/2014	ı
Α	Added note to Reflow Solder Profile	06/27/2019	-
В	Updated Drawing	11/08/2022	-
С	Revised to add MSL 2a condition and packaging	06/06/2023	ML
D	Add Details for Reliability, Washing Allowed Note	08/01/2024	ML

Note:

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