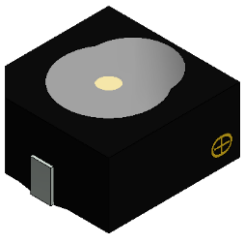
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Data Sheet SMI-1027-TW-12V-R

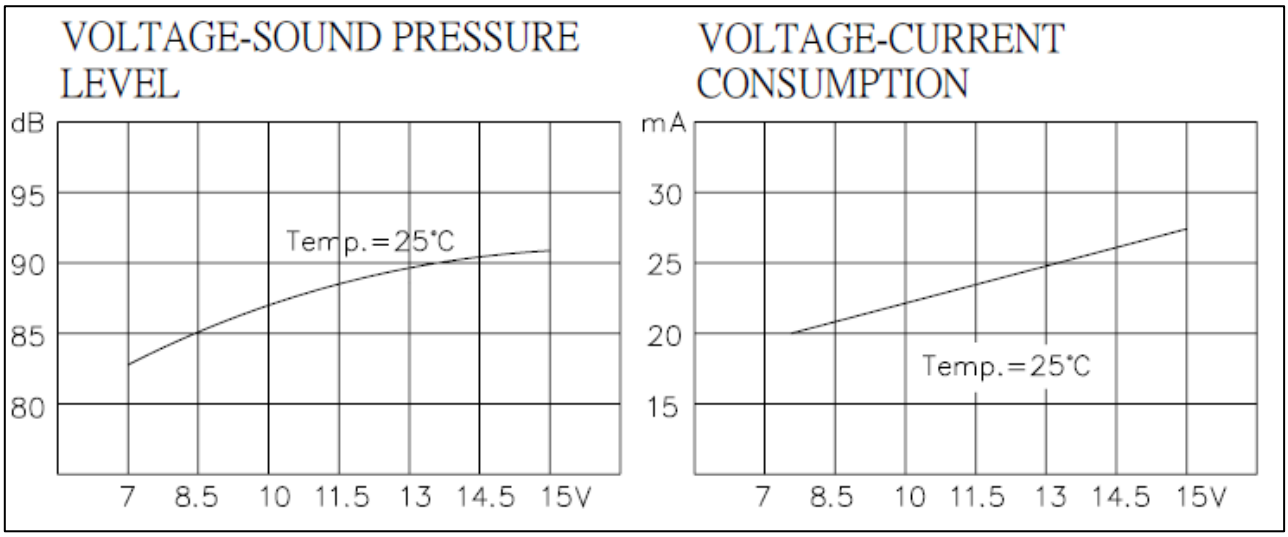
Features:

- 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

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 ±300	Hz
Tone or Pulse Rate	Continuous Tone	-
Housing Material	PPS	-
Terminal Material	Tin Plated Brass	-
Weight	1.5	Grams
Acceptable Soldering Methods	Reflow Solder	See page 2 for details
Environmental Compliances	RoHS	-
Storage Temperature	-40~+85	°C
Operating Temperature	-40~+85	°C

Typical SPL and Current Draw Based on VDC Input

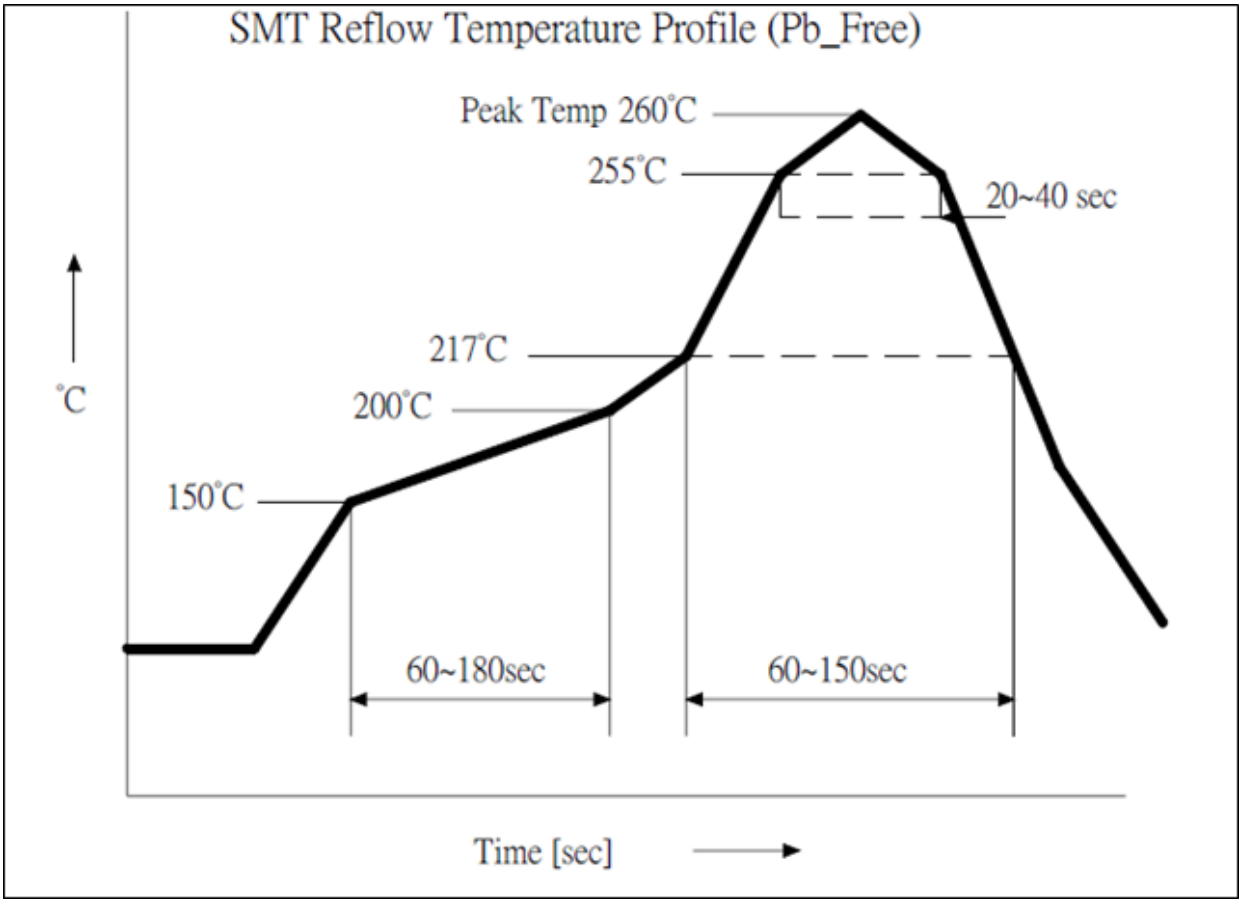


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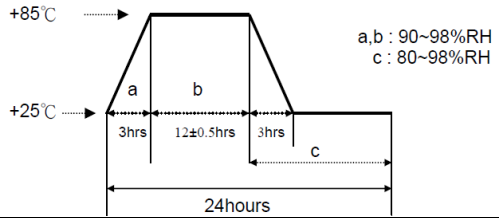
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Recommended Soldering Procedure

One Reflow Cycle Only



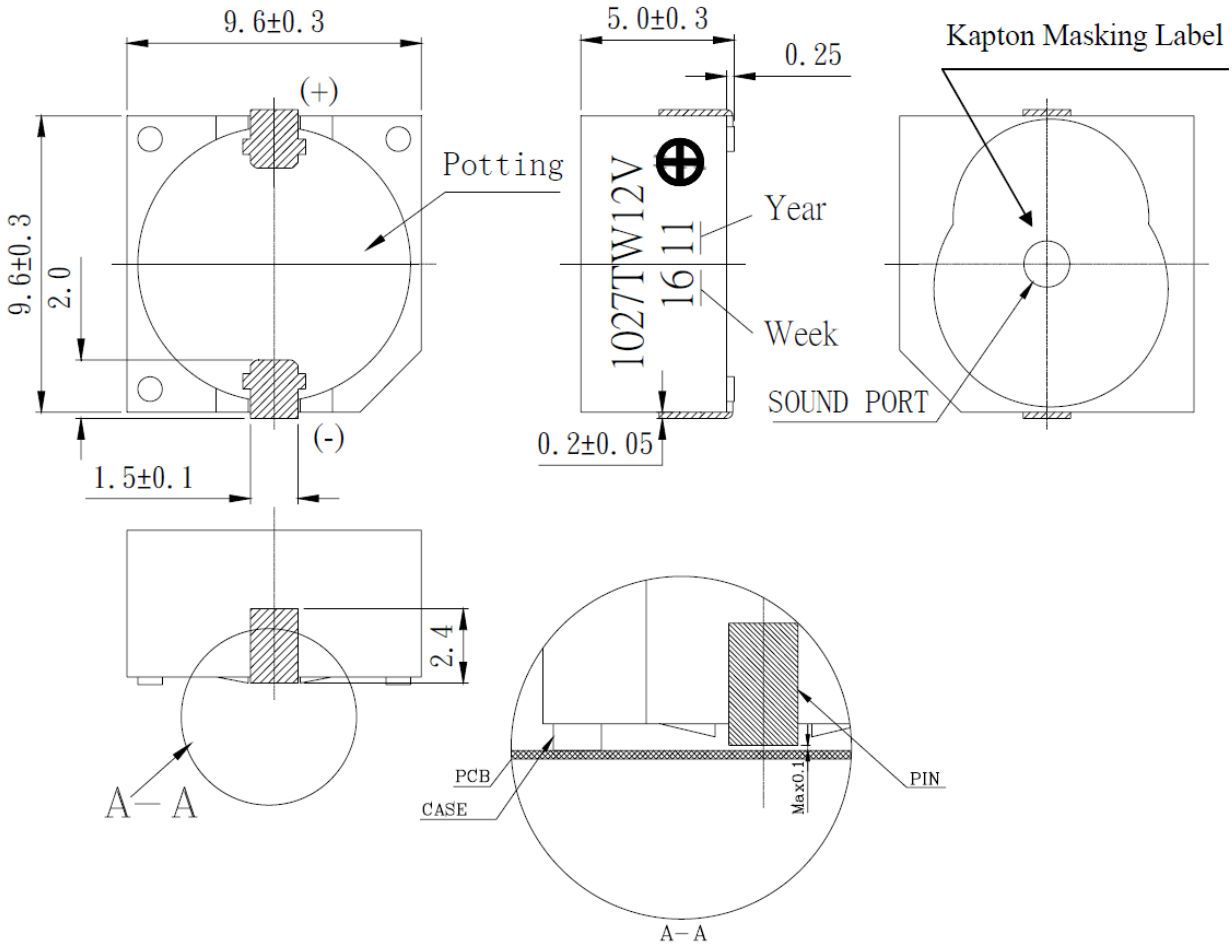
Reliability Testing

Type of Test	Test Specifications
High Temperature Test	96 hours at +85°C
Low Temperature Test	96 hours at -40°C
Temperature Cycle and Humidity Test	Ten 24-hour cycles consisting of the following: 
Operating Life Test	1. Continuous life test - The part shall be subjected to 72 hours at +70°C with 12VDC applied. 2. Intermittent life test - A duty cycle of 1 minute on, 1 minute off, a minimum of 10000 times at room temp. (25±10°C) with 12.0VDC applied.

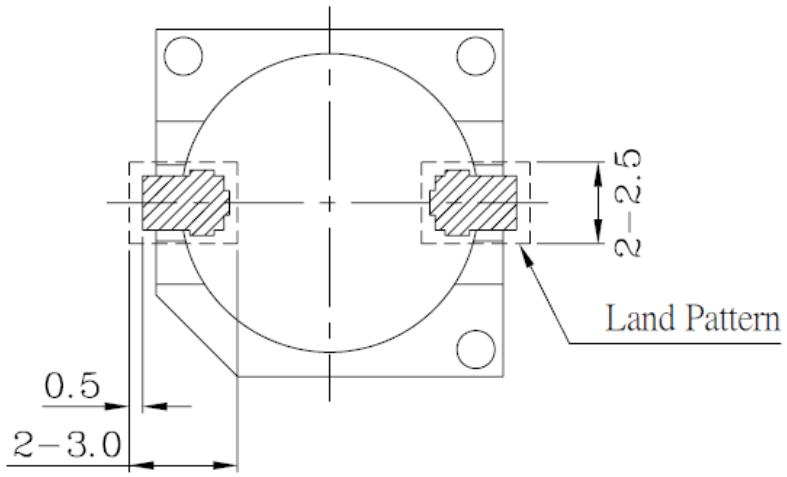
After testing, the part shall be without any degradation in appearance or performance except SPL. After 4 hours at +25°C, the SPL shall measure ±10 dBA compared to initial measurement.

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Dimensions ⊕ denotes positive pad



Suggested Land Pattern*

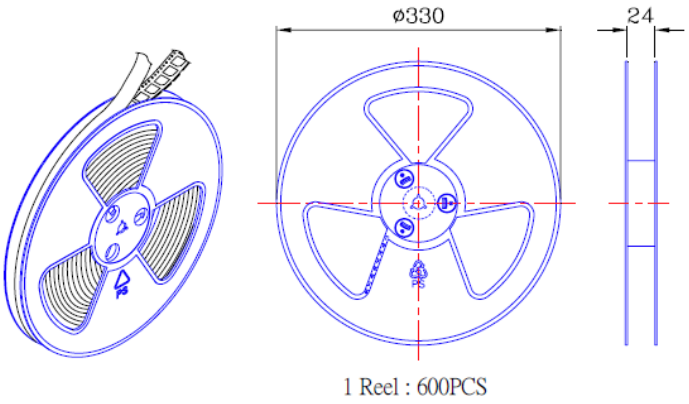


*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

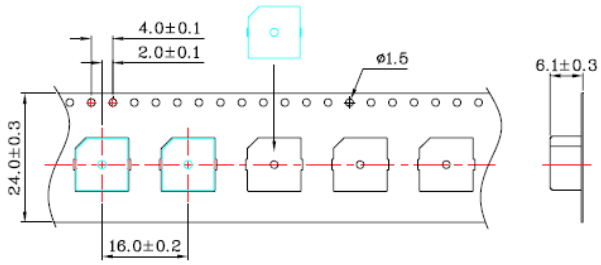
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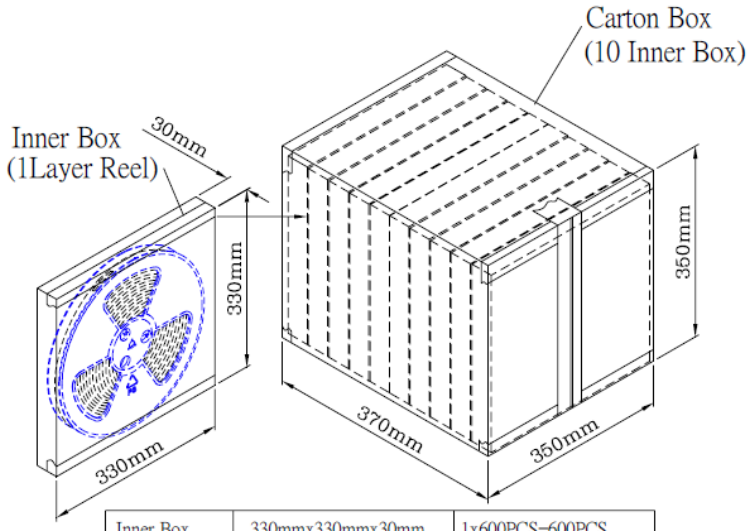
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Packaging



1 Reel : 600PCS





Inner Box	330mmx330mmx30mm	1x600PCS=600PCS
Carton Box	350mmx350mmx370mm	10x600PCS=6,000PCS

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Specifications Revisions

Revision	Description	Date
-	Released from Engineering	11/11/2014
A	Added note to Reflow Solder Profile	6/27/2019

Note:

1. Unless otherwise specified:
   A. All dimensions are in millimeters.
   B. Default tolerances are ±0.5mm and angles are ±3°.
2. Specifications subject to change or withdrawal without notice.

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