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Data Sheet

SMI-1027-TW-12V-R

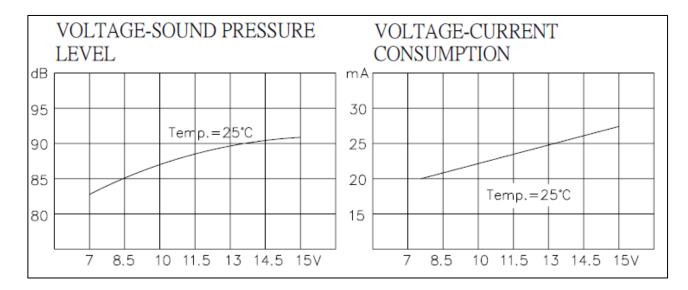
Features:

- 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

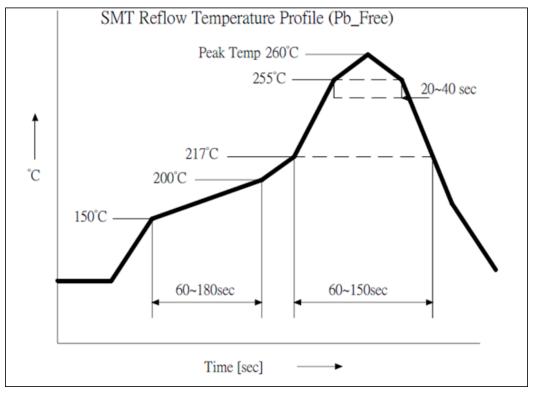
Parameters	Values	Units	
Rated Voltage	12	VDC	
Operating Voltage Range	$7 \sim 15$	VDC	
Current Draw at Rated Voltage (Max)	30	mA	
Minimum SPL @ 10cm	85	dBA	
Resonant Frequency	2700 ±200	Hz	
Tone or Pulse Rate	Continuous Tone	-	
Housing Material	PPS	-	
Terminal Material	Tin Plated Brass	-	
Weight	1.5	Grams	
Acceptable Soldering Methods	Reflow Solder	See page 2 for details	
Environmental Compliances	RoHS/REACH	-	
Storage Temperature	-40~+85	°C	
Operating Temperature	-40~+85	°C	

Typical SPL and Current Draw Based on VDC Input



PUI Audio, Inc., 3541 Stop Eight Road, Dayton, OH 45414 Tel: (937) 415-5901 Fax: (937) 415-5925

Recommended Soldering Procedure One Reflow Cycle Only



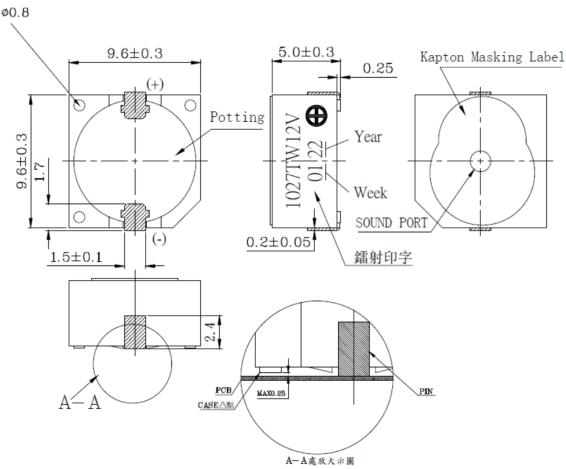
Reliability Testing

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: +85°C , a,b:90~98%RH c:80~98%RH +25°C , a,b:90~98%RH c:80~98%RH 24hours , b,b:90~98%RH		
	 Continuous life test - The part shall be subjected to 72 hours at +70°C with 12VDC applied. Intermittent life test - A duty cycle of 1 minute on, 1 minute off, a minimum of 10000 times at room temp. 		
Operating Life Test	(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.

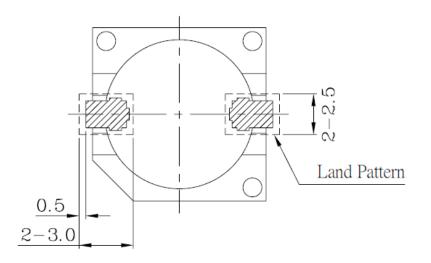
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Dimensions



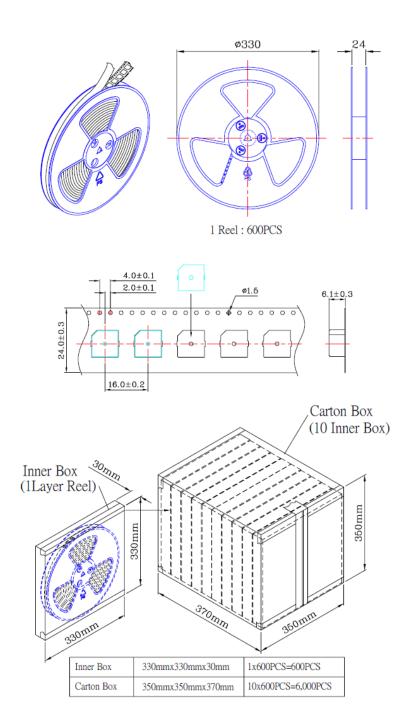
Tolerance ± 0.5 mm unless otherwise specified

Suggested Land Pattern*



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Packaging



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Revision	Revision Description			
-	Released from Engineering	11/11/2014		
А	Added note to Reflow Solder Profile	6/27/2019		
В	Updated Drawing	11/8/2022		

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.