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SMT-1427-S-5V-HT-R

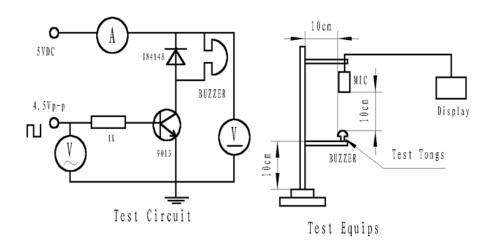
PUI Audio's **High-Temp** line of products is designed with ultra-wide operating temperatures. The **SMT-1427-S-5V-HT-R** is built for high output at 2700 Hz in a small package.

- More than 90 dB output with 5V0-p, 2700Hz input
- Wide operating temperature range of -40°C \sim +105°C
- Weighs only 1 gram

Parameters	Values	Units
Rated Voltage	5	V0-p
Operating Voltage Range	3 ~ 7	V0-p
Current Draw at Rated Voltage	≤60	mA
Coil Resistance	40±6	Ohms
Minimum SPL @ 10cm	≥90	dBA
Resonant Frequency	2700 ± 500	Hz
Housing Material	LCP	-
Weight	1	Grams
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See page 2 for soldering information
Environmental Compliances	RoHS	-
Storage Temperature	-40 ~ +120	°C
Operating Temperature	-40 ~ +105	°C

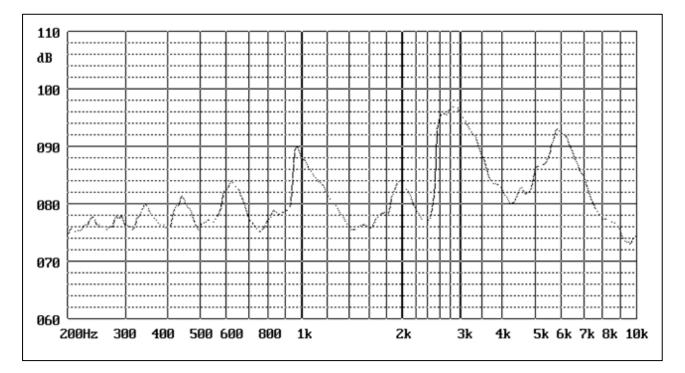
Specifications

Measurement Method (5V0-p, 2700Hz, 50% duty cycle square wave with a SPL meter at 10cm)

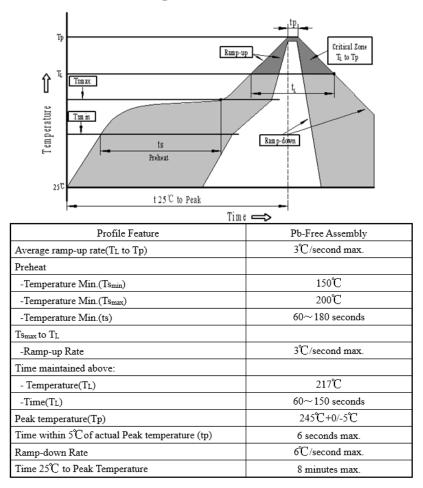


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Typical Frequency Response (5 V0-p sine-sweep with microphone spaced at 10cm)



Recommended Reflow Soldering Procedure



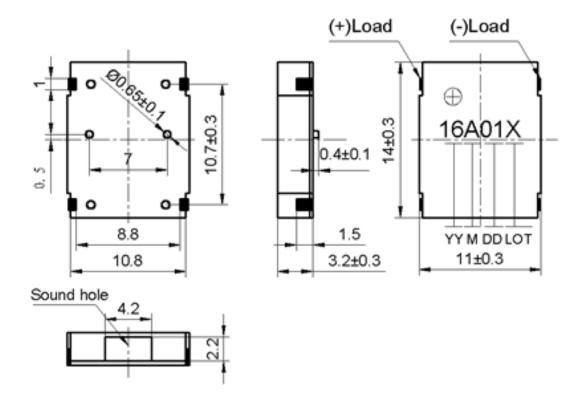
PUI Audio, Inc., 3541 Stop Eight Road, Dayton, OH 45414 Tel: (937) 415-5901 Fax: (937) 415-5925

Type of Test	Test Specifications	
High Temperature Test	The part shall be capable of withstanding a storage temperature of +120°C for 120 hours	
Low Temperature Test	The part shall be capable of withstanding a storage temperature of -40°C for120 hours	
Humidity Test	40±2°C, 90~95% RH, 120 hours	
	Total 5 cycles, 1 cycle consists of: -40±2°C, 30 minutes 20±5°C, 15 minutes 120±2°C, 30 minutes	
Temperature Cycle Testing	20±5°C, 15 minutes	
	The part shall be subjected to a vibration cycle of 10 Hz for a period of 1 minute. Total peak amplitude shall be 1.52mm (9.3g). The vibration test shall consist of 2 hours per	
Vibration Test	plane in each three mutually perpendicular planes for a total time of 6 hours.	
	Sounder shall be measured after being applied a shock (980m/s ²) for each three mutually perpendicular directions to each of 3 times by a	
Shock Test	half sine wave.	

Reliability Testing

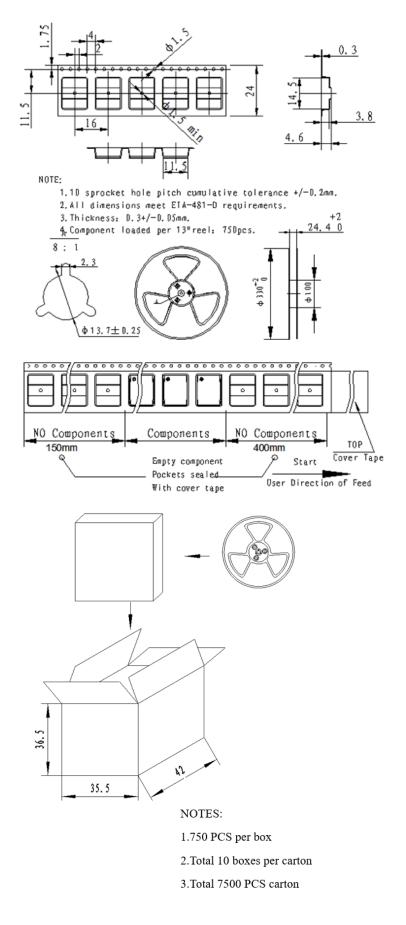
2 hours after the test the part shall meet specifications without any degradation in appearance and performance except SPL shall be ±10dB of the initial value.

Dimensions (Units: mm; Tolerance: ±0.3mm unless specified)



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Packaging



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Specifications Revisions			
Revision	Description	Date	
-	Released from Engineering	3/30/20	

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.