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SMT-1427-S-7-R

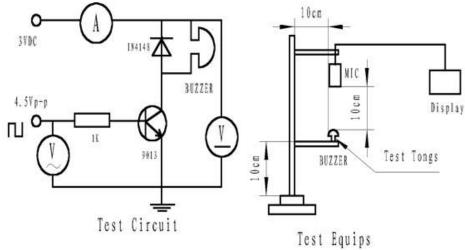
PUI Audio's **High-Temp** line of products is designed with ultra-wide operating temperatures. The **SMT-1427-S-7-R** features high output at 2700 Hz in a small package.

- Wide operating temperature of -40°C ~ +105°C
- Light weight of 0.8 grams
- High output of 90dB with 3V0-p and 2700Hz input

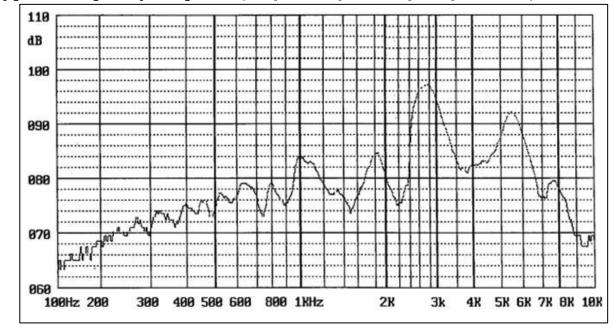
Parameters	Values	Units
Rated Voltage	3	V0-p
Operating Voltage Range	2 ~ 5	V0-p
Current Draw at Rated Voltage	≤80	mA
Coil Resistance	18±3	Ohms
Minimum SPL @ 10cm	≥90	dBA
Resonant Frequency	2700 ± 500	Hz
Housing Material	LCP	-
Weight	0.8	Grams
		See page 2 for soldering
Acceptable Soldering Methods	Hand Solder, Reflow Solder	information
Environmental Compliances	RoHS	-
Storage Temperature	-40 ~ +120	С
Operating Temperature	-40 ~ +105	°C

Specifications

Measurement Method (3V0-p, 2700Hz, 50% duty cycle square wave with a SPL meter at 10cm)

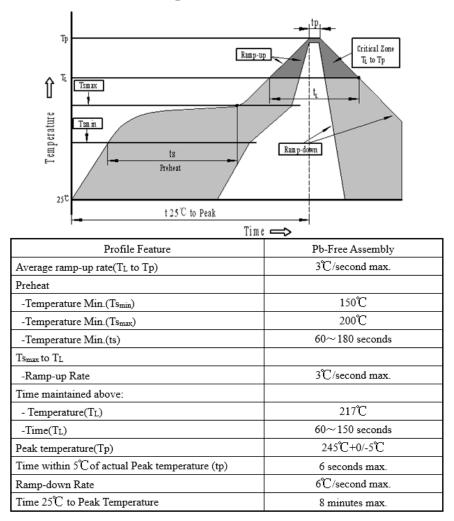


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Typical Frequency Response (3 V0-p sine-sweep with microphone spaced at 10cm)

Recommended Reflow Soldering Procedure

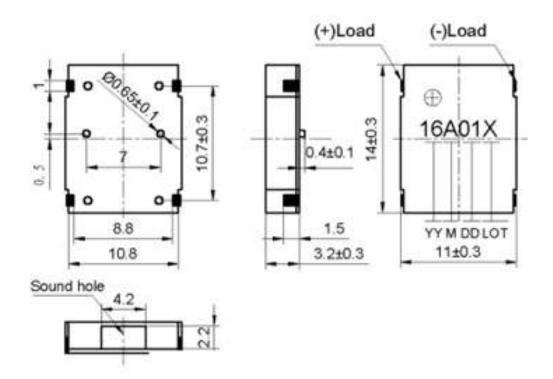


Type of Test	Test Specifications	
	The part shall be capable of withstanding a	
High Temperature Test	storage temperature of +120°C for 120 hours	
	The part shall be capable of withstanding a	
Low Temperature Test	storage temperature of -40°C for120 hours	
Humidity Test	40±2°C, 90~95% RH, 120 hours	
	Total 5 cycles,	
	1 cycle consisting 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	
	10Hz in a period of 1 minute. Total peak	
	amplitude shall be 1.52mm (9.3g).	
	The vibration test shall consist of 2 hours per	
	plane in each three mutually perpendicular	
Vibration Test	planes for a total time of 6 hours.	
	Part 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

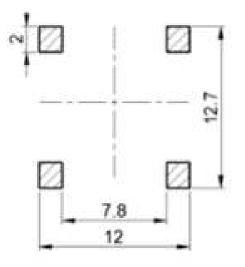
2 hours after the test the part shall meet specifications without any degradation in appearance and performance except SPL shall be initial value ± 10 dB.

Dimensions (Tolerance: ±0.5mm)



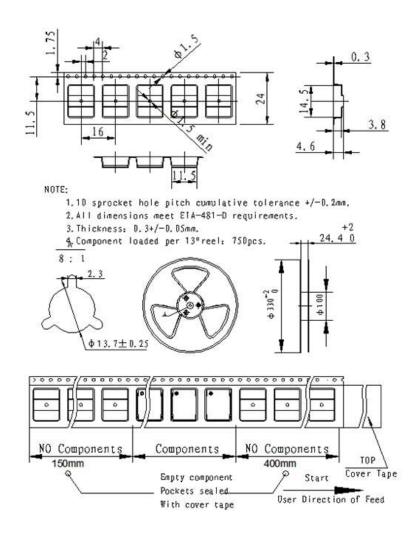
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Suggested Land Pattern*



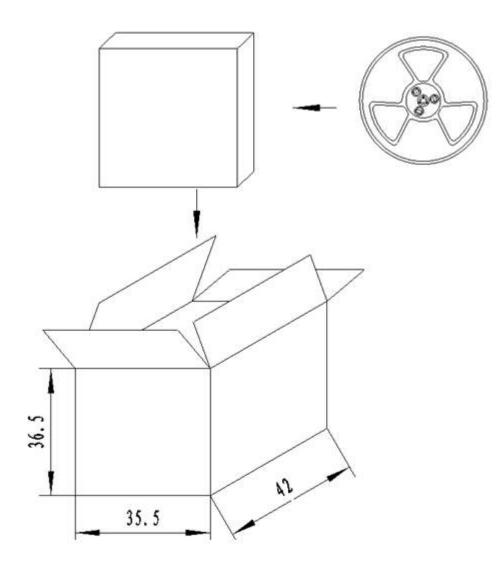
*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

Packaging



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Packaging Cont'd



NOTES:

- 1.750 PCS per box
- 2. Total 10 boxes per carton
- 3.Total 7500 PCS carton

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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.