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Data Sheet

SMT-0825-S-HT-R

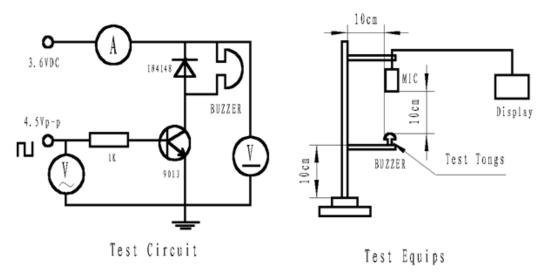
PUI Audio's **High-Temp** line of products is designed with ultra-wide operating temperatures. The **SMT-0825-S-HT-R** is designed for high output at 2500 Hz in a small package.

- Wide operating temperature of -40°C ~ +105°C
- Light weight of 0.5 grams
- 83 dB output with 3.6V0-p and 2500 Hz input

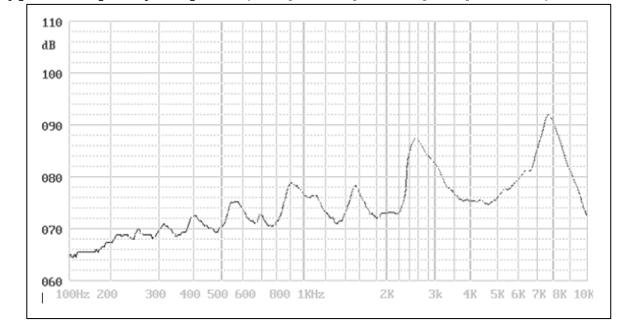
Parameters	Values	Units
Rated Voltage	3.6	V0-p
Operating Voltage Range	2~5	V0-p
Current Draw at Rated Voltage	≤80	mA
Coil Resistance	16±3	Ohms
Minimum SPL @ 10cm	≥83	dBA
Resonant Frequency	2500±500	Hz
Housing Material	LCP	-
Weight	0.5	Grams
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See page 2 for soldering information
Environmental Compliances	RoHS	-
Storage Temperature	-40 ~ +120	°C
Operating Temperature	-40 ~ +105	°C

Specifications

Measurement Method (3.6V0-p, 2500Hz, 50% duty cycle square wave with a SPL meter at 10cm)

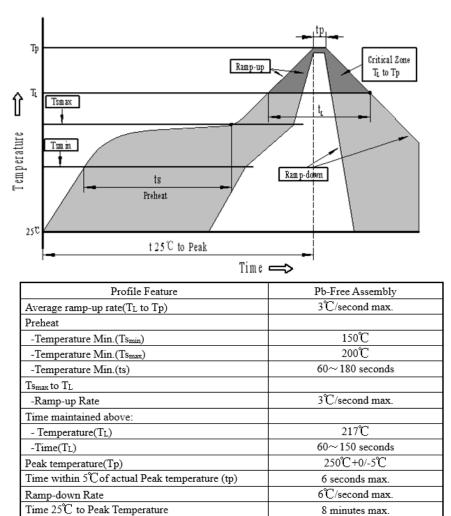


PUI Audio, Inc., 3541 Stop Eight Road, Dayton, OH 45414 Tel: (937) 415-5901 Fax: (937) 415-5925



Typical Frequency Response (3.6 V0-p sine-sweep with microphone spaced at 10cm)

Recommended Soldering Procedure

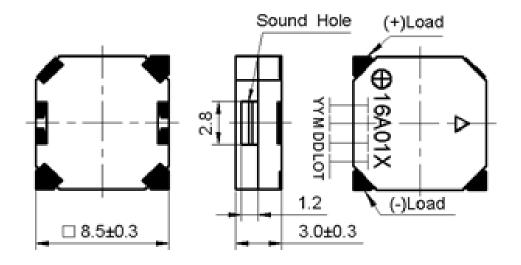


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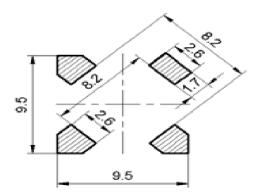
Type of Test	Test Specifications
	The part shall be capable of withstanding a
High Temperature Test	storage temperature of +120°C for 120
	hours
	The part shall be capable of withstanding a
Low Temperature Test	storage temperature of -40°C for 120 hours
Humidity Test	40±2°C, 90~95% RH, 120 hours
	Total 5 cycles, 1 cycle consisting of:
	-40±2°C, 30 minutes
Temperature Cycle Testing	20±5°C, 15 minutes
	120±2°C, 30 minutes
	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.
	Sounder shall be measured after being
	applied a shock (980m/s ²) for each three
	mutually perpendicular directions, each done
Shock Test	3 times by a half sine wave.
	Dropped from a 7m height onto the surface
	of a 10mm thick wooden board. Shall be
Drop Test	applied to the top and side of the part.

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

Dimensions (Tolerance: ±0.5mm)

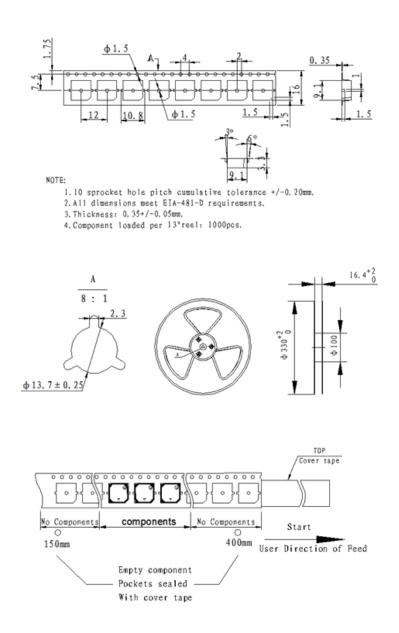


Suggested Land Pattern*



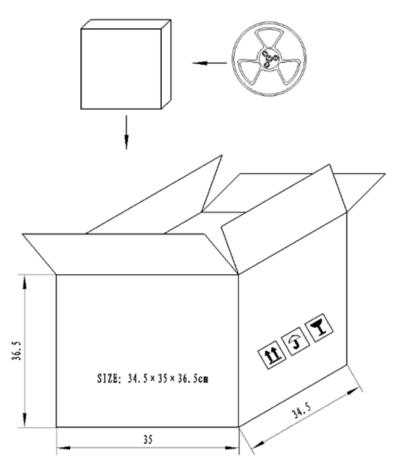
*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

Packaging



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Packaging Cont'd



NOTES:

- 1.1000 PCS per box
- 2.Total 10 boxes per carton
- 3.Total 10000 PCS carton

Specifications Revisions					
Revision	Description	Date			
-	Released from Engineering	3/31/20			

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.