This document contains data proprietary to PUI Audio Inc. Any use or reproduction, in any form, without prior written permission of PUI Audio Inc. is prohibited.

©2020, PUI Audio Inc.



SMT-0825-T-HT-R

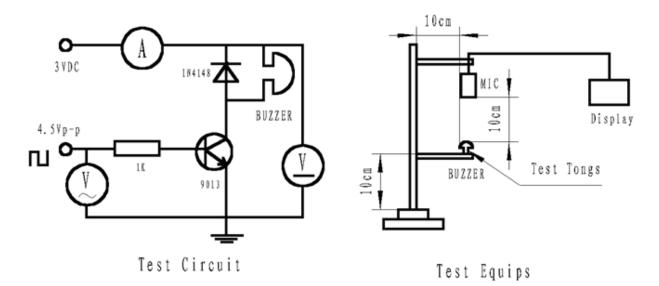
PUI Audio's **High-Temp** line of products is designed with ultra-wide operating temperatures. The **SMT-0825-T-HT-R** is designed for high output at 2500 Hz in a small package.

- Only weighs 0.5 grams
- 85 dB output with 3.6V0-p and 2500 Hz input
- Wide operating temperature range of $-40^{\circ}C \sim +105^{\circ}C$

Sn	ocific	ations	
SP	etht	auons	

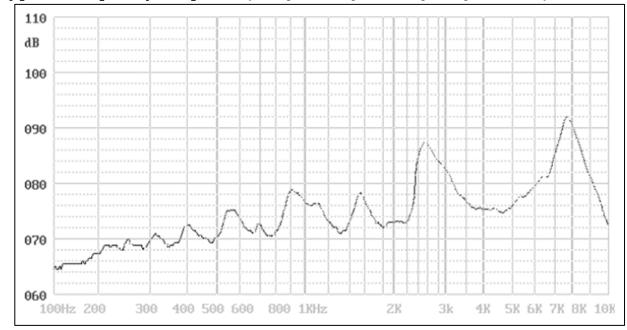
Parameters	Values	Units
Rated Voltage	3.6	V0-p
Operating Voltage Range	2~5	V0-p
Current Draw at Rated Voltage	≤100	mA
Coil Resistance	16±3	Ohms
Minimum SPL @ 10cm	≥85	dBA
Resonant Frequency	2500 ±500	Hz
Housing Material	LCP	-
Weight	0.5	Grams
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See page 2 for soldering information
Environmental Compliances	RoHS	-
Storage Temperature	-40 ~ +120	°C
Operating Temperature	-40 ~ +105	°C

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



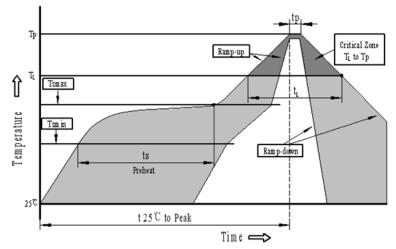
PUI Audio, Inc., 3541 Stop Eight Road, Dayton, OH 45414 Tel: (937) 415-5901 Fax: (937) 415-5925

This document contains data proprietary to PUI Audio Inc. Any use or reproduction, in any form, without prior written permission of PUI Audio Inc. is prohibited. ©2020, PUI Audio Inc.



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

Recommended Soldering Procedure



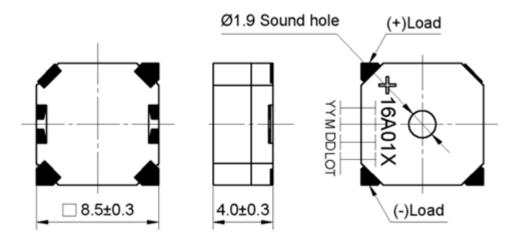
Profile Feature	Pb-Free Assembly
Average ramp-up rate(TL to Tp)	3°C/second max.
Preheat	
-Temperature Min.(Ts _{min})	150°C
-Temperature Min.(Ts _{max})	200°C
-Temperature Min.(ts)	$60 \sim 180$ seconds
Ts _{max} to TL	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature(TL)	217°C
-Time(TL)	$60 \sim 150$ seconds
Peak temperature(Tp)	250℃+0/-5℃
Time within 5°C of actual Peak temperature (tp)	6 seconds max.
Ramp-down Rate	6°C/second max.
Time 25° C to Peak Temperature	8 minutes max.

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
	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.
	The part shall be measured after being
	applied a shock (980m/ s^2) for each three
	mutually perpendicular directions to each of
Shock Test	3 times by a half sine wave.
	Drop part from 70cm onto the surface of a
	10mm thick wooden board. Applied to the
Drop Test	top and side of the part.

Reliability Testing

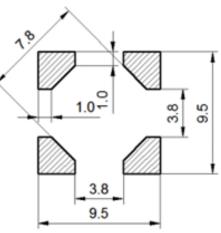
2 hours after the test the part shall meet specifications without any degradation in appearance and performance except SPL shall be ±10dB of the initial value.

Dimensions (Tolerance: ±0.5mm Units: mm)



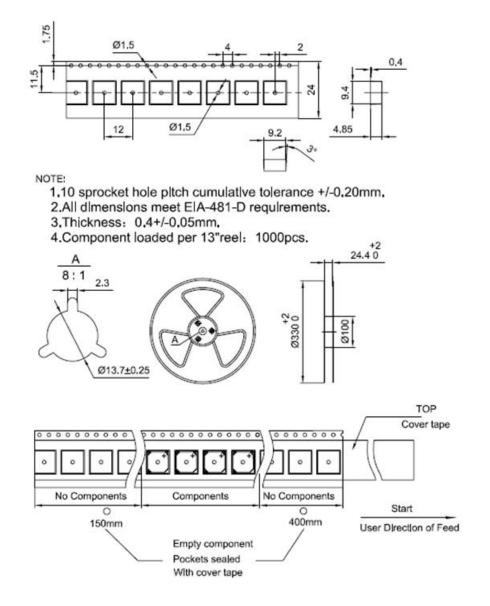
This document contains data proprietary to PUI Audio Inc. Any use or reproduction, in any form, without prior written permission of PUI Audio Inc. is prohibited. ©2020, PUI Audio Inc.

Suggested Land Pattern*



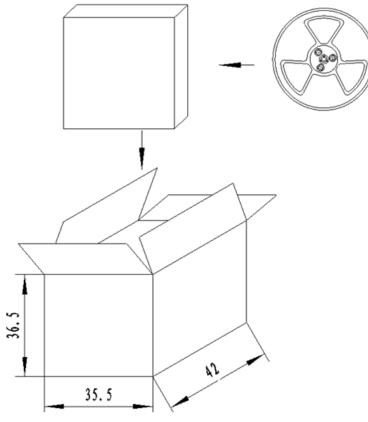
*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

Packaging



PUI Audio, Inc., 3541 Stop Eight Road, Dayton, OH 45414 Tel: (937) 415-5901 Fax: (937) 415-5925 This document contains data proprietary to PUI Audio Inc. Any use or reproduction, in any form, without prior written permission of PUI Audio Inc. is prohibited. ©2020, PUI Audio Inc.

Packaging Cont'd



NOTES:

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

This document contains data proprietary to PUI Audio Inc. Any use or reproduction, in any form, without prior written permission of PUI Audio Inc. is prohibited. ©2020, PUI Audio Inc.

Specifications Revisions				
Revision	Description	Date		
-	Released from Engineering	4/1/20		

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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

PUI Audio: SMT-0825-T-HT-R