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Data Sheet

SMT-0830-T-HT-R

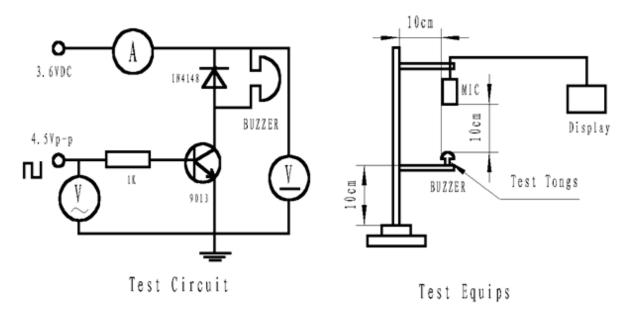
PUI Audio's **High-Temp** line of products is designed with ultra-wide operating temperatures. The **SMT-0830-T-HT-R** is designed for high output at 3000 Hz in a small package.

- 90dB output with 3.6 V0-p and 3000 Hz input
- Has a wide operating temperature range of -40°C ~ +105°C
- Only weighs 0.4 grams

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	≥90	dBA
Resonant Frequency	3000±500	Hz
Housing Material	LCP	-
Weight	0.4	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

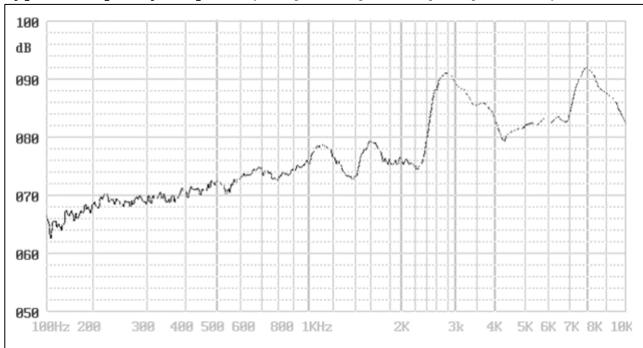
Specifications

Measurement Method (3.6V0-p, 3000Hz, 50% duty cycle square wave with a SPL meter at 10cm)



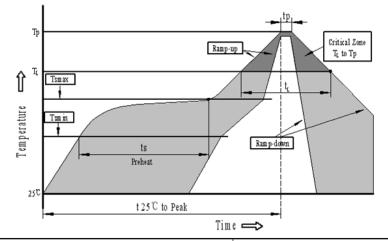
PUI Audio, Inc., 3541 Stop Eight Road, Dayton, OH 45414 Tel: (937) 415-5901 Fax: (937) 415-5925

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

Recommended Soldering Procedure



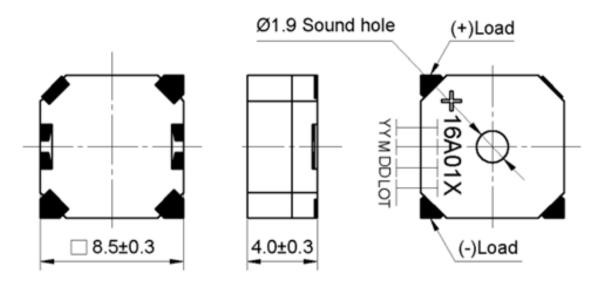
Profile Feature	Pb-Free Assembly
Average ramp-up rate(TL to Tp)	3°C/second max.
Preheat	
-Temperature Min.(Tsmin)	150°C
-Temperature Min.(Ts _{max})	200°C
-Temperature Min.(ts)	$60 \sim 180$ seconds
Ts _{max} to TL	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature(TL)	217°C
-Time(TL)	$60 \sim 150$ seconds
Peak temperature(Tp)	250°C+0/-5°C
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
Low Town or the Toot	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.
	Sounder 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.
	Dropped from 7m onto the surface of a
	10mm thick wooden board. Applied to the
Drop Test	top and side of the part.

Reliability Testing

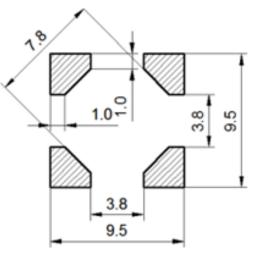
2 hours after the test the part shall meet specifications without any degradation in appearance and performance except SPL shall be within ±10dB of the initial value.

Dimensions (Tolerance: ±0.5mm Units: mm)



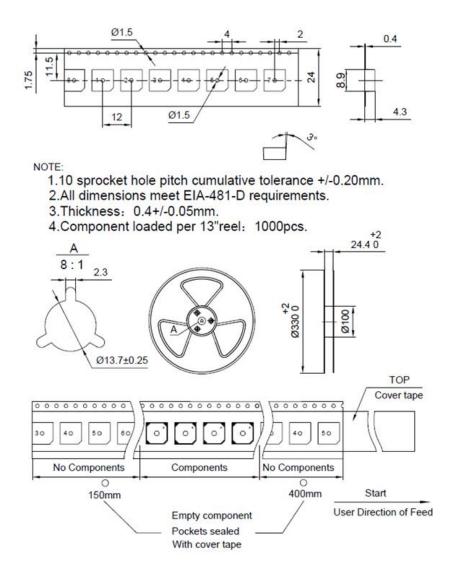
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Suggested Land Pattern*



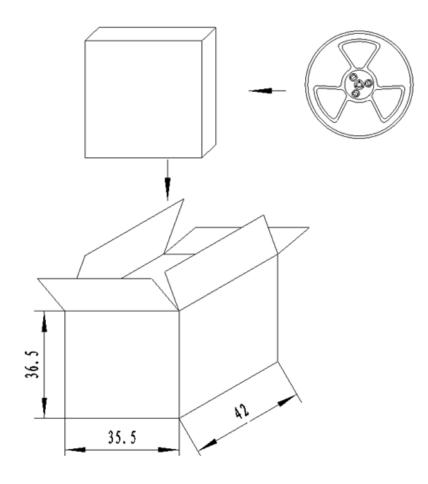
*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

Packaging



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Packaging Cont'd



NOTES:

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

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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.

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 ED-30761-000
 CI-30120-A42
 SMT-0440-T-2-R
 PB-0927PQ
 BF-7083-000
 BF-9778-000
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 SMS2020-08H4.5 LF
 BDT1717-08H6.5W56MLF
 02094
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 GSPK1003PN-8R0.2W-L100
 GSPK151103TN-8R0.2W
 GSPK2014035PN

 8R0.5W-L100
 FS5353DS0830-H19.3
 TE082703-8
 XMLP040BD21F
 AS03608MR-LW100-R
 24520
 SMT-0540-S-2-R
 1450069
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 IPS-G6000-5
 9090231
 FS50MS0820-H9.7
 FS4014-4-2W
 PBM4-13.B31R.A115.0663
 PBM4-13.B33R.A115.0663
 PBM4

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 A-10-6-BG360-HD1Z-GA-M4Z-ZW
 A-10-6-BG410-HD1Z-AA-AGZ-ZW
 A-10-6-BG310-HD1Z-AA-M4Z-ZW
 A-10-6-BG310-HD1Z-AA-M4Z-ZW

 A-10-6-BG310-HD1Z-GA-M4Z-ZW
 A-10-6-BG310-HD1Z-AA-AGZ-ZW
 A-10-6-BG310-HD1Z-AA-M4Z-ZW
 A-10-6-BG310-HD1Z-AA-M4Z-ZW