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SMT-1324-TW-1V-HT-R

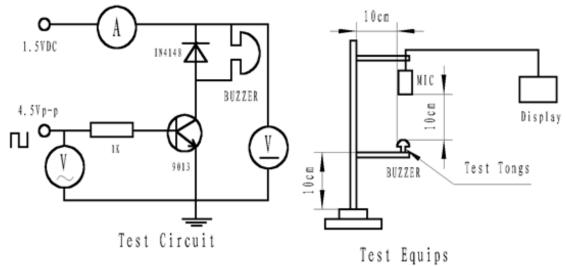
PUI Audio's **High Temperature** line of products is designed to withstand ultrawide operating temperatures. The **SMT-1324-TW-1V-HT-R** is designed for high output at 2.4 kHz in a small package.

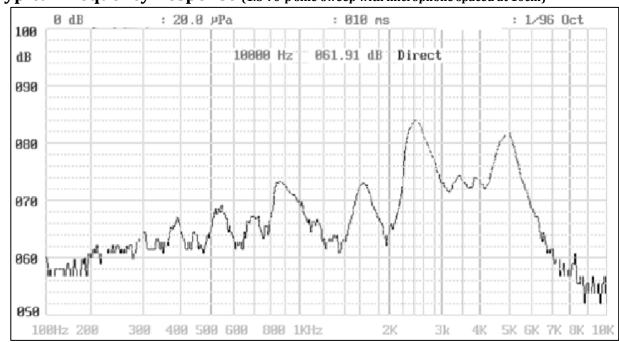
- Wide operating temperature range of -40°C ~ +105°C
- Low rated voltage at 1.5V0-p
- Light 2-gram weight

Specifications

Parameters	Values	Units
Rated Voltage	1.5	V0-p
Operating Voltage Range	1 ~ 2	V0-p
Current Draw at Rated Voltage	≤30	mA
Coil Resistance	15±3	Ohms
Minimum SPL @ 10cm	≥80	dBA
Resonant Frequency	2400±500	Hz
Housing Material	LCP	-
Weight	2	Grams
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See page 2 for soldering information
Environmental Compliances	RoHS	-
Storage Temperature	-40 ~ +120	О°
Operating Temperature	-40 ~ +105	°C

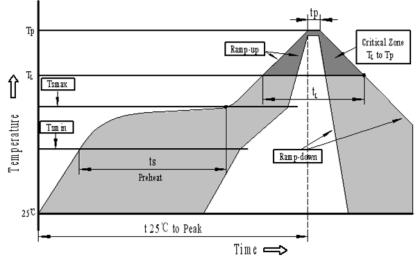
Measurement Method (1.5V0-p, 2400Hz, 50% duty cycle square wave with a SPL meter at 10cm)





Typical Frequency Response (1.5 V0-p sine-sweep with microphone spaced at 10cm)

Recommended Soldering Procedure



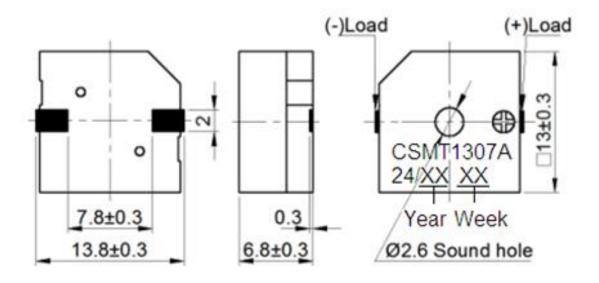
Profile Feature	Pb-Free Assembly
Average ramp-up rate(TL to Tp)	3°C/second max.
Preheat	
-Temperature Min.(Ts _{min})	150°C
-Temperature Min.(Ts _{max})	200°C
-Temperature Min.(ts)	$60 \sim 180$ seconds
Ts _{max} to T _L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature(TL)	217°C
-Time(TL)	$60 \sim 150$ seconds
Peak temperature(Tp)	245°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 Temperature Test	The part shall be capable of withstanding a
-	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 \pm 5°C, 15 minutes
	120 \pm 2°C, 30 minutes
Temperature Cycle Testing	$20\pm5^{\circ}$ 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 3 times by a
Shock Test	half sine wave.
	Dropped from a height of 700mm onto the
	surface of a 10mm thick wooden board. This
Drop Test	shall be applied to the top and side of the part.

Reliability Testing

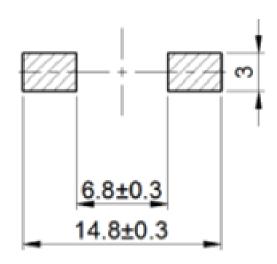
2 hours after the test the part shall meet specifications without any degradation in appearance and performance except SPL shall be within ±10dB of the initial value.

Dimensions (Tolerance: ±0.5mm unless specified)



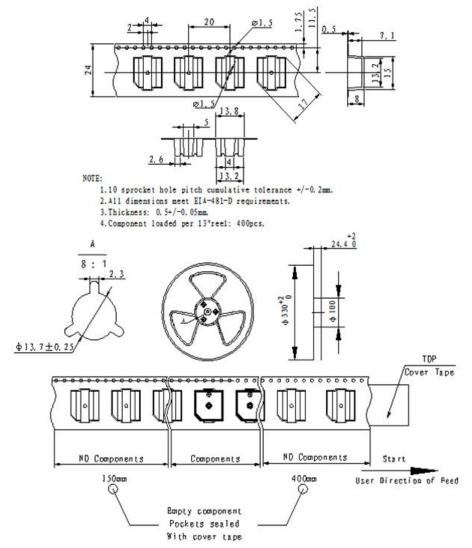
PUI Audio, Inc., 3541 Stop Eight Road, Dayton, OH 45414 Tel: (937) 415-5901 Fax: (937) 415-5925

Suggested Land Pattern*



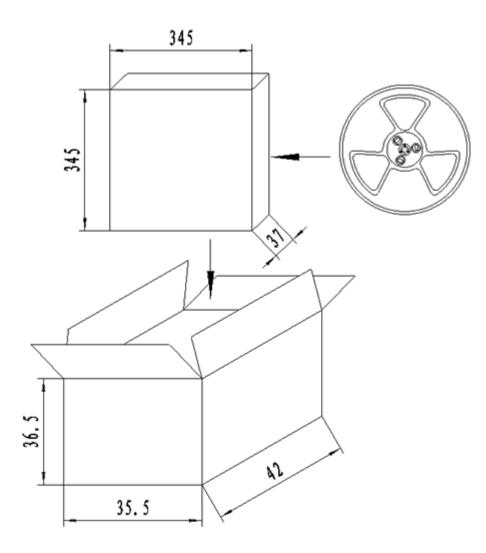
*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

Packaging



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Packaging Cont'd



NOTES:

1.400 PCS per box

2.Total 10 boxes per carton

3.Total 4000 PCS carton