

Data Sheet SMT-0824-S-2-R

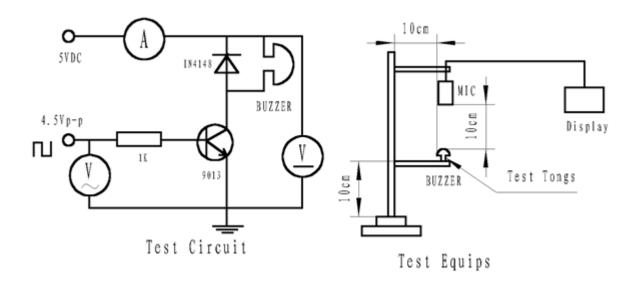
#### **Features:**

- 85 dB output with 5V0-p, 2400 Hz input
- Weighs only 0.4 grams
- Design to work with 3 to 7 V0-p

### **Specifications**

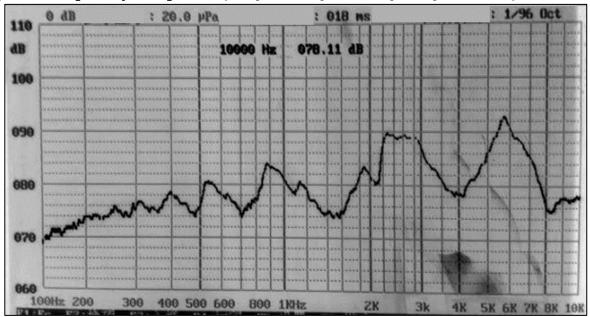
Parameters	Values	Units
Rated Voltage	5	V0-p
Operating Voltage Range	3 ~ 7	V0-p
Current Draw at Rated Voltage	≤100	mA
Coil Resistance	32±5	Ohms
Minimum SPL @ 10cm	≥85	dBA
Resonant Frequency	2400	Hz
Housing Material	LCP	-
Weight	0.4	Grams
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See below for soldering information
Environmental Compliances	RoHS	-
Storage Temperature	-30 ~ +80	°C
Operating Temperature	-20 ~ +70	°C

## Measurement Method~(5V0-p, 2400Hz, 50%~duty cycle square wave with a SPL meter at 10cm)

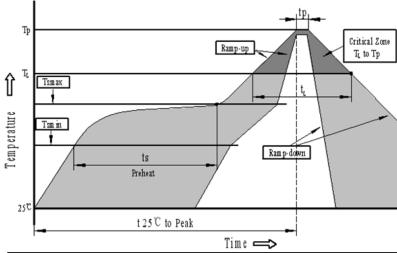


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## Typical Frequency Response (5 VO-p sine-sweep with microphone spaced at 10cm)



# **Recommended Soldering Procedure**



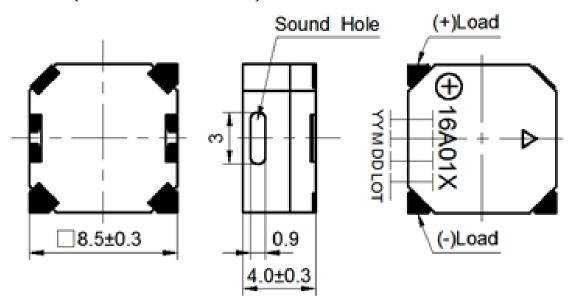
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Profile Feature	Pb-Free Assembly
Average ramp-up rate(T <sub>L</sub> to Tp)	3℃/second max.
Preheat	
-Temperature Min.(Ts <sub>min</sub> )	150℃
-Temperature Min.(Ts <sub>max</sub> )	200℃
-Temperature Min.(ts)	60∼180 seconds
Ts <sub>max</sub> to T <sub>L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

**Reliability Testing** 

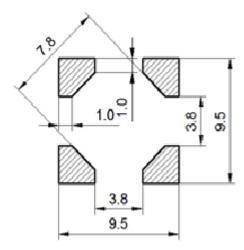
Type of Test	<b>Test Specifications</b>	
High Temperature Test	The part shall be capable of withstanding a storage temperature of +80°C for 120 hours	
Low Temperature Test	The part shall be capable of withstanding a storage temperature of -30°C for 120 hours	
Humidity Test	30±2°C, 90∼95% RH, 120 hours	
Temperature Cycle Testing	Total 5 cycles, 1 cycle consisting of: -30±2°C, 30 minutes 20±5°C, 15 minutes 80±2°C, 30 minutes 20±5°C, 15 minutes	
Vibration Test	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 planes for a total time of 6 hours.	
Shock Test	Sounder shall be measured after being applied a shock (980m/s <sup>2</sup> ) for each three mutually perpendicular directions to each of 3 times by a half sine wave.	
Drop Test	Dropped from a 7m height onto the surface of a 10mm thick wooden board. Applied to the top and side of the part.	

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

# Dimensions (Tolerance: ±0.5mm Units: mm)

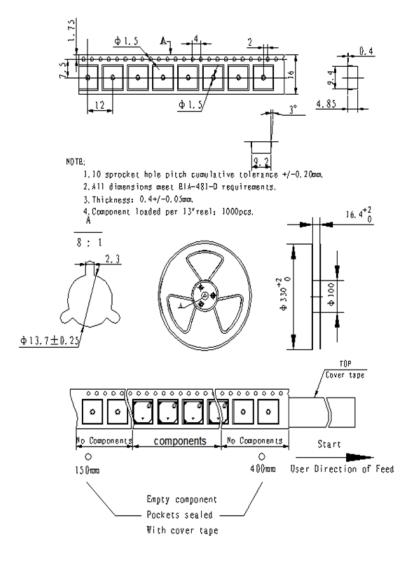


### **Suggested Land Pattern\***

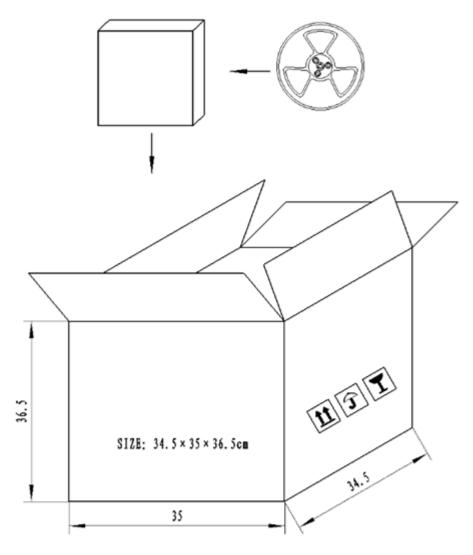


\*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

### **Packaging**



## Packaging Cont'd



#### NOTES:

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