



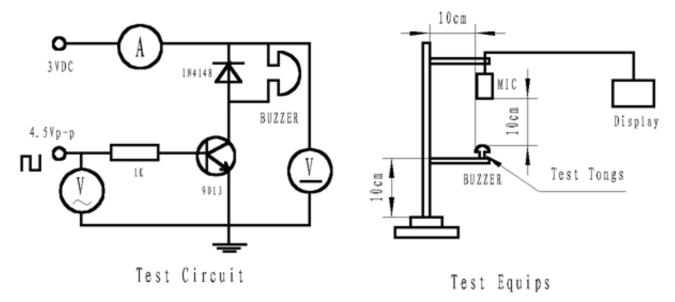
Data Sheet	SMT-0540-T-9-R
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Transducer Specifications

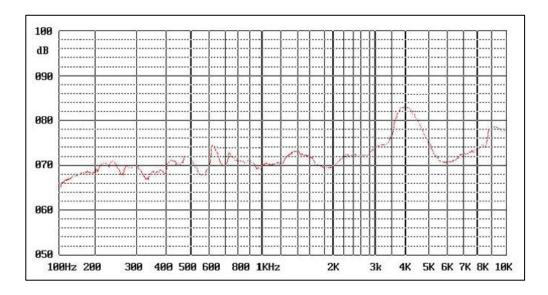
Parameters	Values	Units
Rated Voltage	3	V0-p
Operating Voltage Range	2~5	V0-p
Current Draw at Rated Voltage*	≤100	mA
Coil Resistance	12 ±2	Ohms
Minimum SPL @ 10cm*	≥80	dBA
Resonant Frequency	4,000 ±500	Hz
Housing Material	LCP	-
Terminal Material	Tin Plated Brass	-
Weight	0.12	Grams
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See page 3 for soldering information
Environmental Compliances	RoHS/REACH	-
Operating Temperature	-40 ~ +105	°C
Storage Temperature	-40 ~ +120	°C

^{*}At rated voltage with 50% duty cycle 4 kHz positive biased square-wave

Measurement Method (with 3V input)



Typical Frequency Response (3V input measured at 10cm)

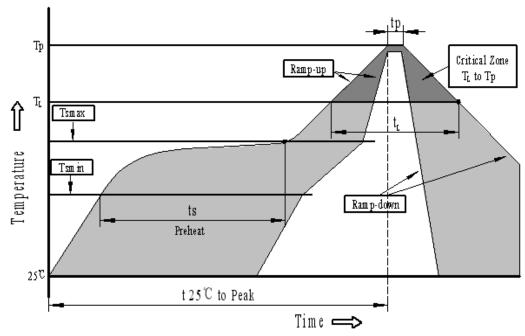


Reliability Testing

Type of Test	Test Specifications
High Temperature Test	The part shall be capable of withstanding a storage temperature is +120°C for 120 hours
Low Temperature Test	The part shall be capable of withstanding a storage temperature is -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 that is 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm (9.3g).
Vibration Test	The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours.
	Mount part to 170g fixture and drop from a height of
Drop Test	150cm onto cement floor for 10 cycles
	The part shall be pulled with a force of 9.8N for 10±1
	second, axially, and shall not shows signs of damage.
Terminal Lead Pull Test	4
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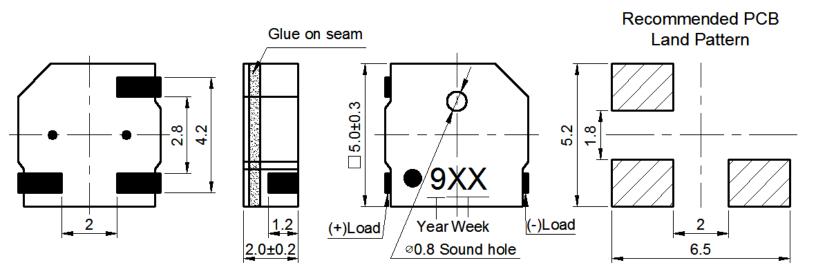
After each test, part shall meet specifications with an SPL variance of no more than ±10 dB

Recommended Reflow Soldering Procedure



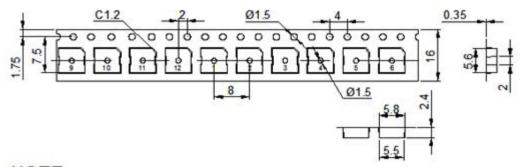
Profile Feature	Pb-Free Assembly		
Average ramp-up rate(T _L to Tp)	3°C/second max.		
Preheat			
-Temperature Min.(Ts _{min})	150°C		
-Temperature Min.(Ts _{max})	200°C		
-Temperature Min.(ts)	60 ~ 180 seconds		
Ts _{max} to T _L			
-Ramp-up Rate	3°C/second max.		
Reflow			
- Temperature(T _L)	217°C		
-Time(T _L)	60∼150 seconds		
Peak temperature(Tp)	250°C+0/-5°C		
Time within 5°Cof actual Peak temperature (tp)	6 seconds max.		
Ramp-down Rate	6°C/second max.		
Time 25°C to Peak Temperature	8 minutes max.		

Dimensions and Suggest Land Pattern* (Positive pad is located to the left of the Date Code)



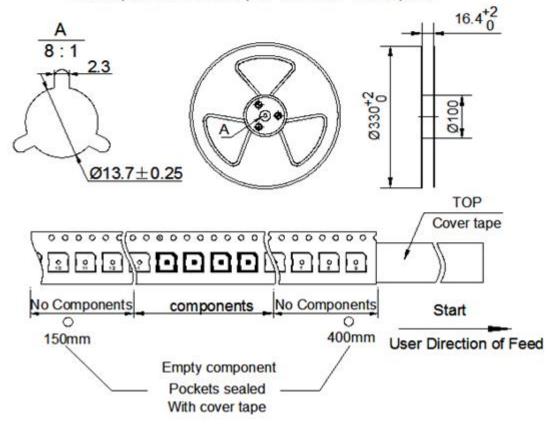
*This land pattern is advisory only and its use or adaptation is entirely voluntary.
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Packaging

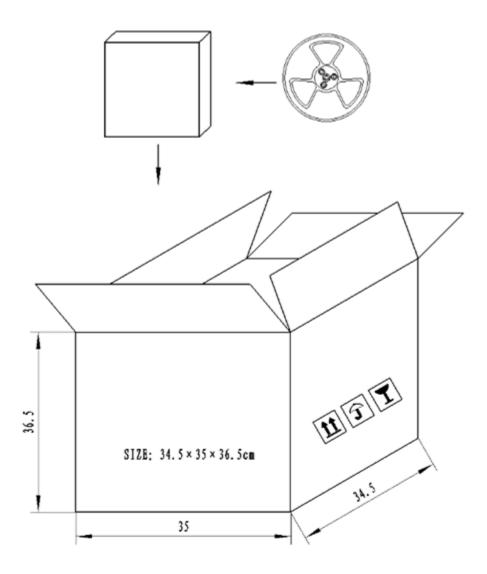


NOTE:

- 1.10 sprocket hole pitch cumulative tolerance +/-0.20mm.
- 2.All dimensions meet EIA-481-D requirements.
- 3.Thickness: 0.35+/-0.05mm.
- 4.Component loaded per 13"reel: 2500pcs.



Packaging (cont'd)



NOTES:

- 1. 2500 PCS per box
- 2. 10 boxes / carton 25000 PCS
- 3. 4 boxes / carton 10000 PCS

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Specifications Revisions

Revision	Description	Date
-	Released from Engineering	3/15/2019
	Revised Note 2 to Require	
A	Customer Approval Prior to	
	Changes	3/18/2019

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 or changes may not be made without prior customer notification and approval.