SMD-Signalgeber (ohne Ansteuerung) SMD-05A03 *Art.-Nr.: 220110*

SPECIFICATIONS:

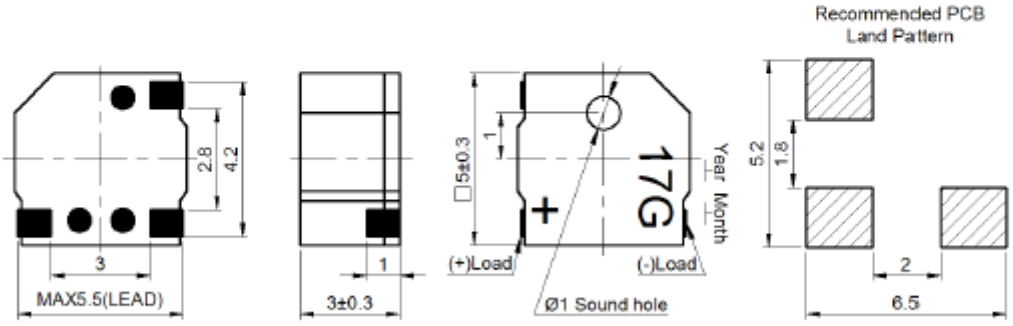
1	Rated Voltage (V)	3
2	Operating Voltage (V)	2～5
3	Resonant Frequency (Hz)	4000
4	☆Coil Resistance (Ω)	12±2
5	☆*Sound Output at 10cm (dB)	⩾78
6	☆*Current Consumption (mA)	⩽100
7	Operating Temperature (℃)	-40～+105
8	Storage Temperature (℃)	-40～+120
9	Weight (g)	0.3
10	Case material and colour	LCP / Black

*Applying rated voltage (Resonant frequency, 1/2 duty, Square wave)

☆Test Basic State: Temp(20±2℃),Humidity(40~70%RH),Air pressure(860~1060hPa).

DIMENSIONS (UNIT: mm)

Tolerance: ±0.5mm Except Specified



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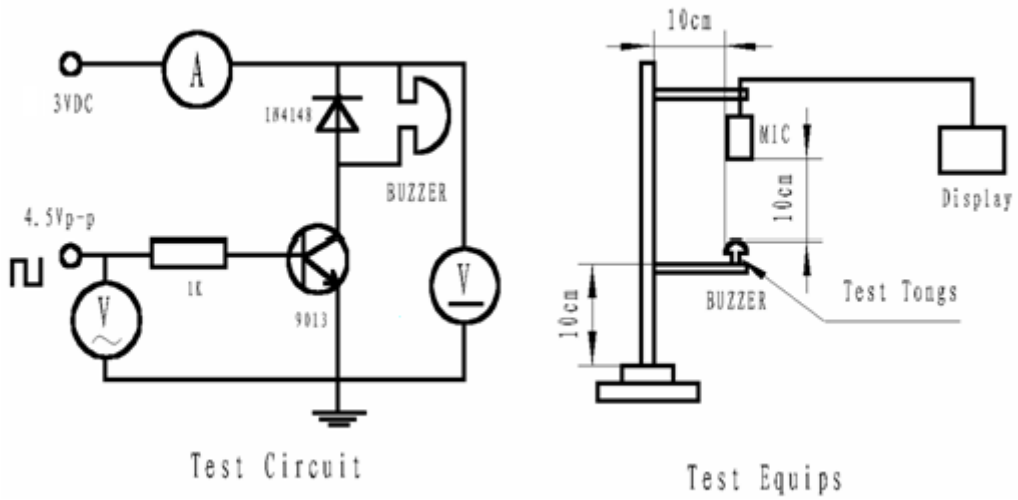
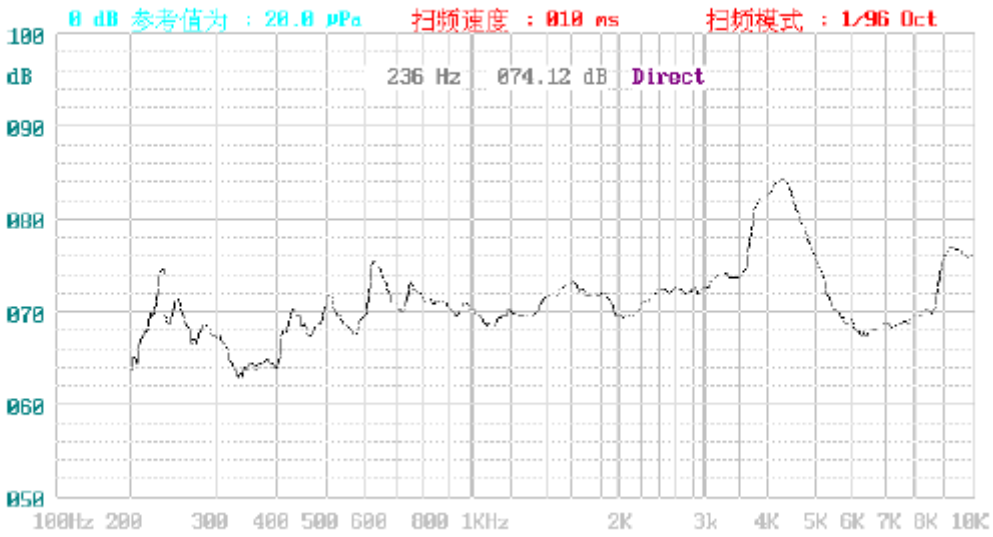
TEST METHOD:



FREQUENCY RESPONSE:



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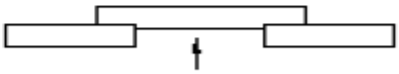
RELIABILITY TEST:

NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
1	*High temp. storage*	The part shall be capable of withstanding a storage temperature is +120℃ for 120 hours	After the test the part shall meet specifications without any degradation in appearance and performance except SPL shall be initial value±10dB .(pls do the test after 2 hours when you finish the experiment)
2	*Low temp. storage*	The part shall be capable of withstanding a storage temperature is -40℃ for 120 hours	
3	Temp. Cycle	Total 5 cycles, 1 cycle consisting of -40±2℃, 30 minutes 20±5℃ 15 minutes 120±2℃, 30 minutes 20±5℃ 15 minutes	
4	Humidity Test	40±2℃, 90~95% RH, 120 hours	
5	Vibration Test	The part shall be subjected to a vibration cycle is 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.	
6	Shock	Sounder shall be measured after being applied shock (980m/s²) for each three mutually perpendicular directions to each of 3 times by half sine wave.	
7	Drop Test	Dropped naturally from 700mm height onto the surface of 10mm thick wooden board. 2 directions-upper and side of the part are to be applied.	
8	Lead pull	The part shall be pushed with a force of 9.8N for 10±1 seconds behind the part. 	After the test part shall meet specifications without any degradation in appearance and performance.
9	Recommended temp. Profile for Reflow Oven	Shown in Fig.1	
Warranty:For a period of one year from date of manufcture under normal operations.			

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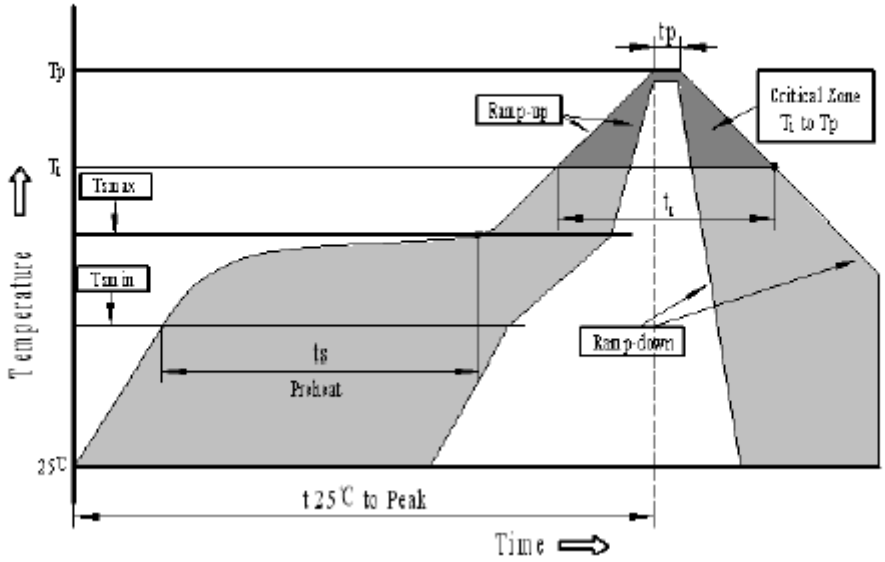
Recommended Temp. Profile for Reflow Oven (Fig.1)



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

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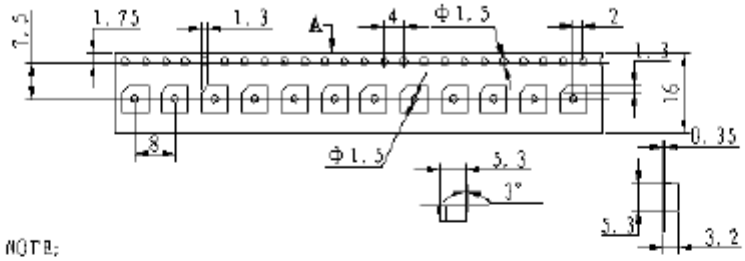
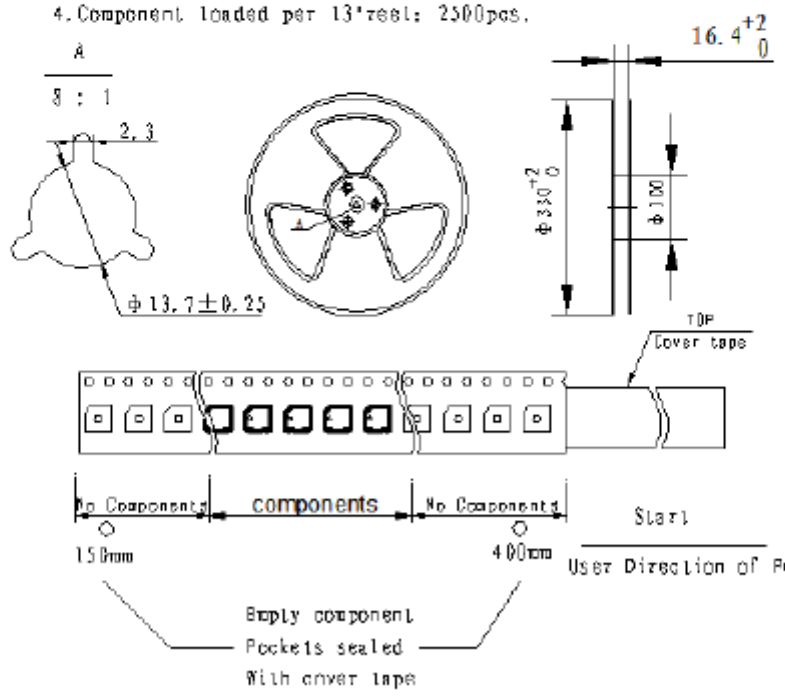
PACKING:



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.



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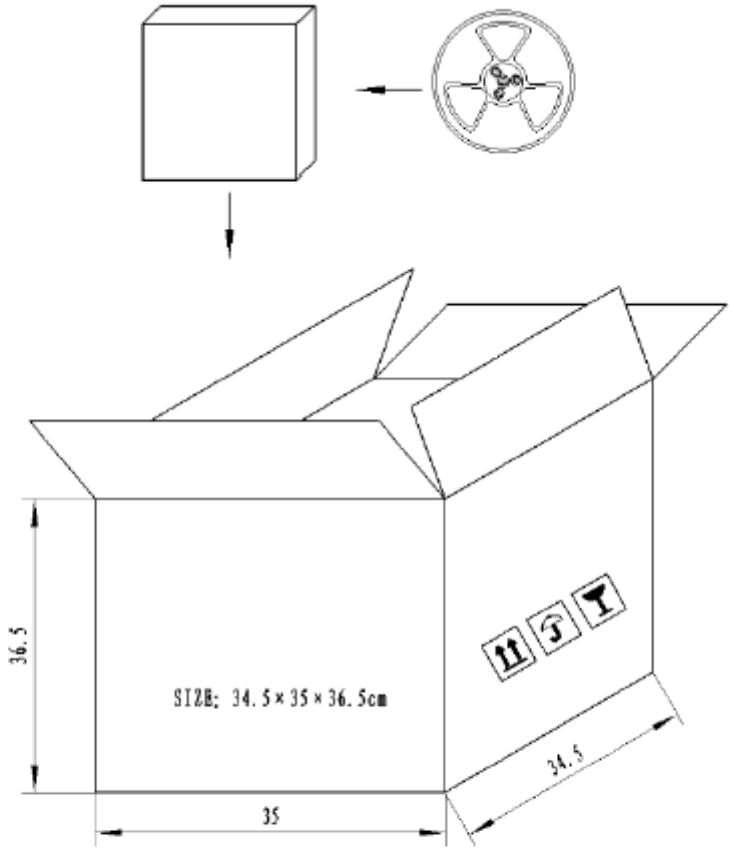

NOTES:
1. 2500 PCS per box
2. 10 boxes / carton 25000 PCS
3. 4 boxes / carton 10000 PCS

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