

SMD-Signalgeber (ohne Ansteuerung) SMD-P09B03 Art.-Nr.: 220023

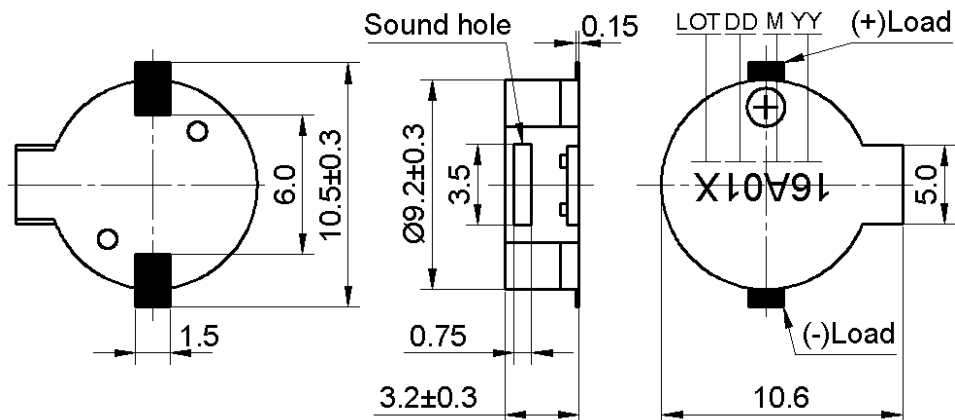
Specification :

Rated Voltage (V)	3
Operating Voltage (V)	2~4
☆ Coil Resistance (Ω)	16 ± 3
Resonant Frequency (Hz)	3000
☆*Sound Output at 10cm (dB)	≥ 94
☆*Current Consumption (mA)	≤ 80
Operating Temperature ($^{\circ}\text{C}$)	-40~+105
Storage Temperature ($^{\circ}\text{C}$)	-40~+120
Weight (g)	0.8
Housing Material	LCP
RoHS	Yes

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

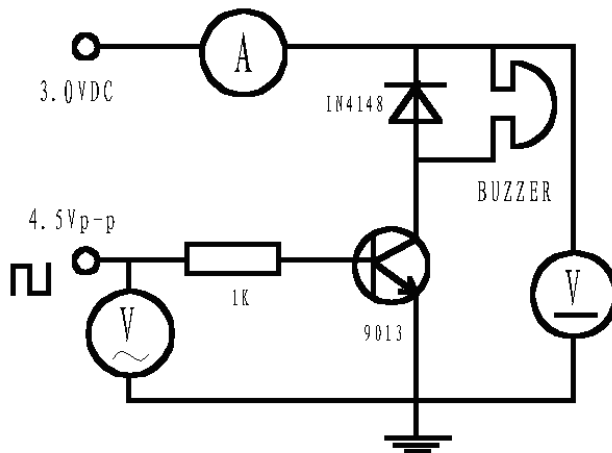
☆Tset Basic State: Temp ($20 \pm 2^{\circ}\text{C}$), Humidity (40~70%RH), Air pressure (860~1060hPa).

Dimensions : Tolerance : $\pm 0,5\text{mm}$ Except Specified
(Unit : mm)

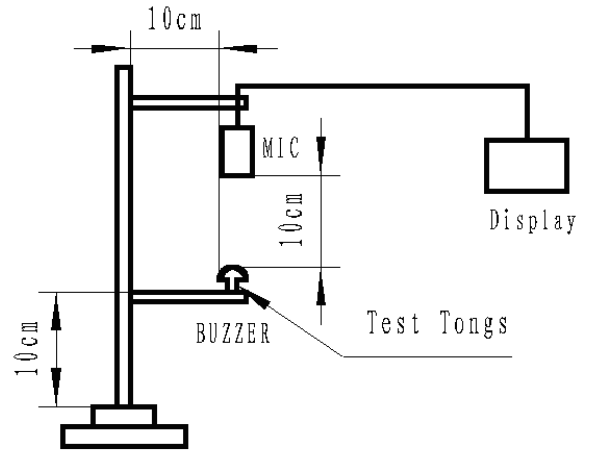


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Test Method :

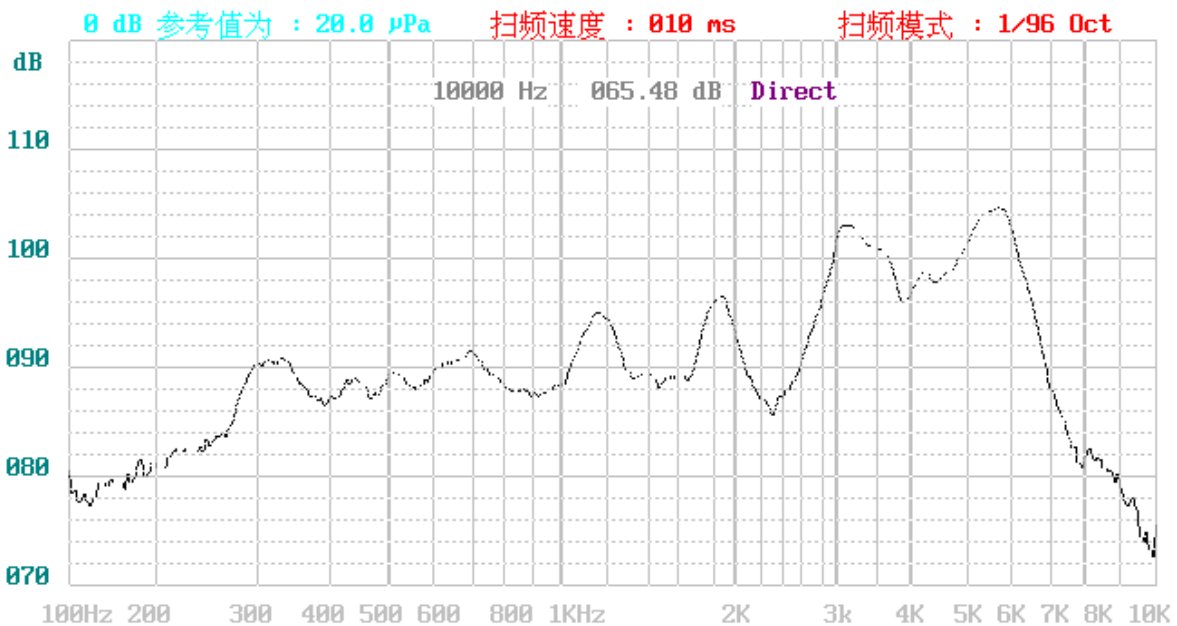


Test Circuit



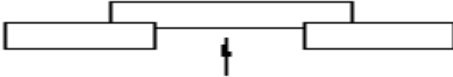
Test Equipis

Frequency Response :

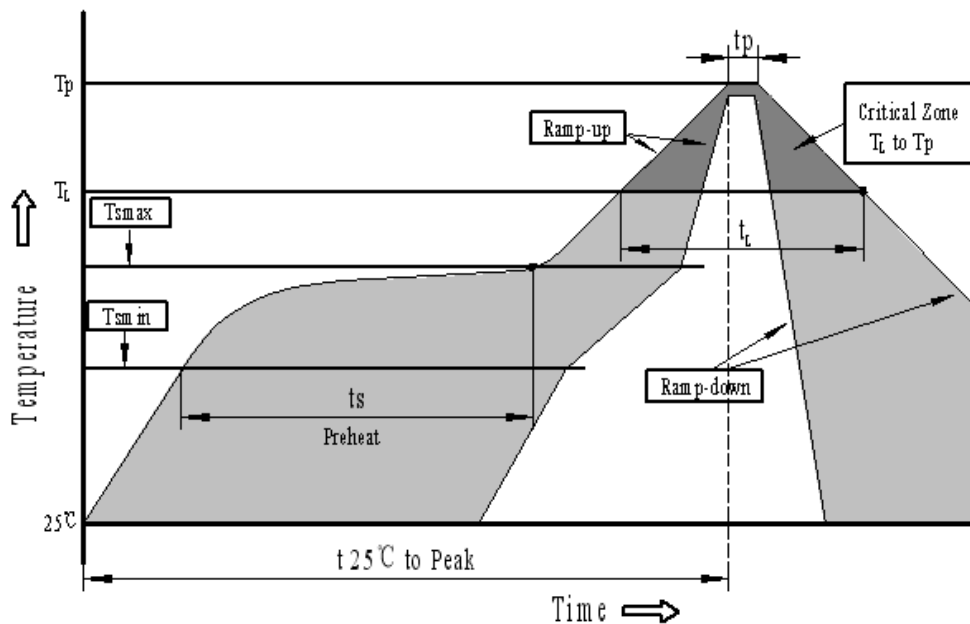


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Reliability Test :

NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
1	High temp. storage	The part shall be capable of withstanding a storage temperature is +120°C 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°C for 120 hours	
3	Temp. Cycle	Total 5 cycles, 1 cycle consisting of -40±2°C, 30 minutes 20±5°C 15 minutes 120±2°C, 30 minutes 20±5°C 15 minutes	
4	Humidity Test	40±2°C, 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/s ²) 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 manufacture under normal operations.			

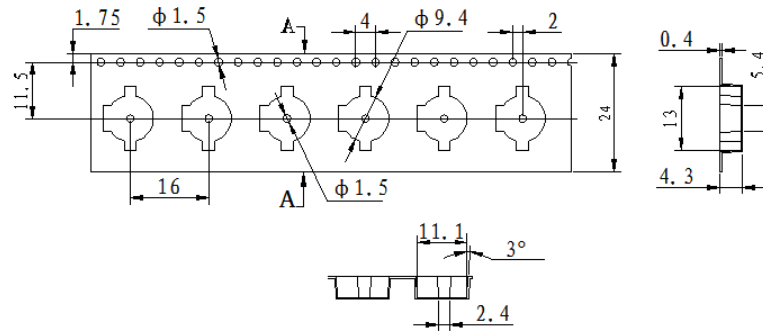
Recommended Temp. Profile for Reflow Oven (Fig.1)



Profile Feature	Pb-Free Assembly
Average ramp-up rate (T_L to T_p)	3°C/second max.
Preheat	
-Temperature Min. (T_{smin})	150°C
-Temperature Min. (T_{smax})	200°C
-Temperature Min. (t_s)	60~180 seconds
T_{smax} to T_L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature (T_L)	217°C
-Time (T_L)	60~150 seconds
Peak temperature (T_p)	250°C+0/-5°C
Time within 5°C of actual Peak temperature (t_p)	6 seconds max.
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

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Packing:



NOTE:

1. 10 sprocket hole pitch cumulative tolerance ± 0.2 mm.
2. All dimensions meet EIA-481-D requirements.
3. Thickness: 0.4 ± 0.05 mm.
4. Component loaded per 13" reel: 1000 pcs.

