

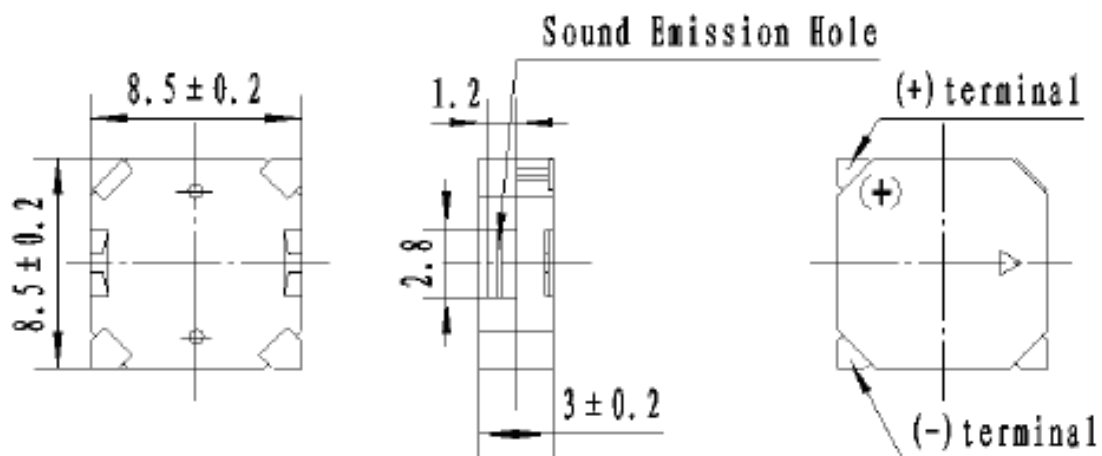
**SMD-Signalgeber (ohne Ansteuerung) SMD-08A05** Art.-Nr.: 220005

1	Model No.	SMD ELECTRO-MAGNETIC TRANSDUCER
2	Rated Voltage (V)	5
3	Operating Voltage (V)	3~7
4	Coil Resistance ( $\Omega$ )	$32 \pm 5$
5	Resonant Frequency (Hz)	2700
6	*Sound Pressure Level (dB/min)	85at10cm at Rated Voltage
7	*Current Consumption (mA/max)	80at Rated Voltage
8	Operating Temperature ( $^{\circ}\text{C}$ )	$-20 \sim +70$
9	Storage Temperature ( $^{\circ}\text{C}$ )	$-30 \sim +80$
10	Weight (g)	0.5
11	Case material and colour	LCP / Black

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

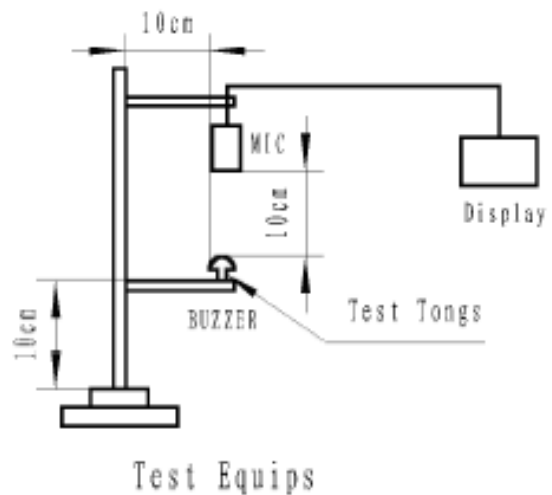
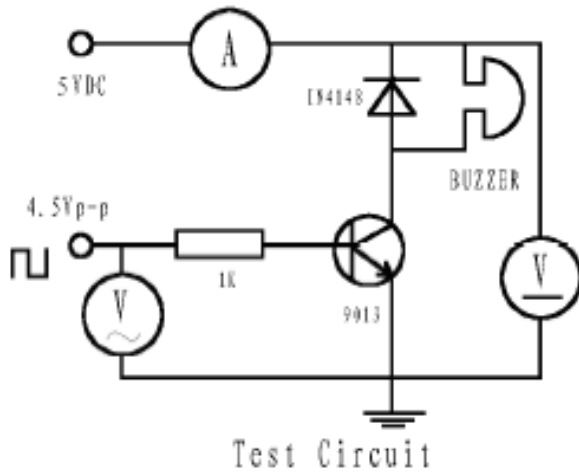
DIMENSIONS (UNIT: mm)

Tolerance:  $\pm 0.5\text{mm}$  Except Specified

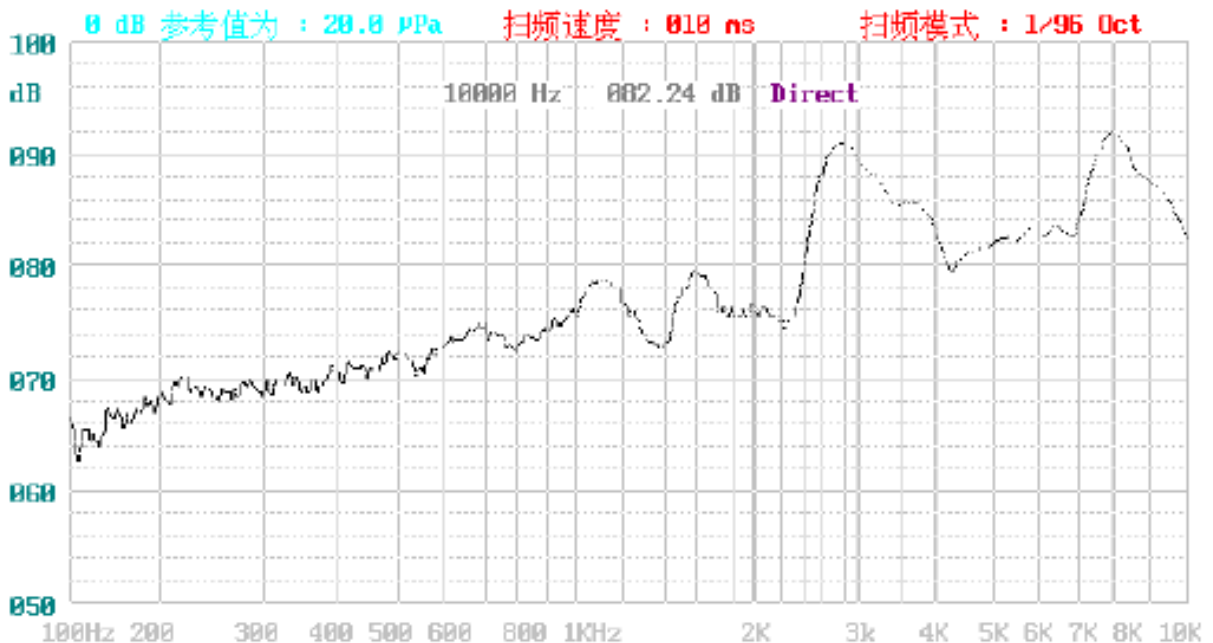


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TEST METHOD:

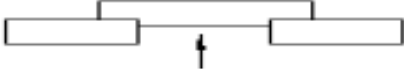


FREQUENCY RESPONSE:



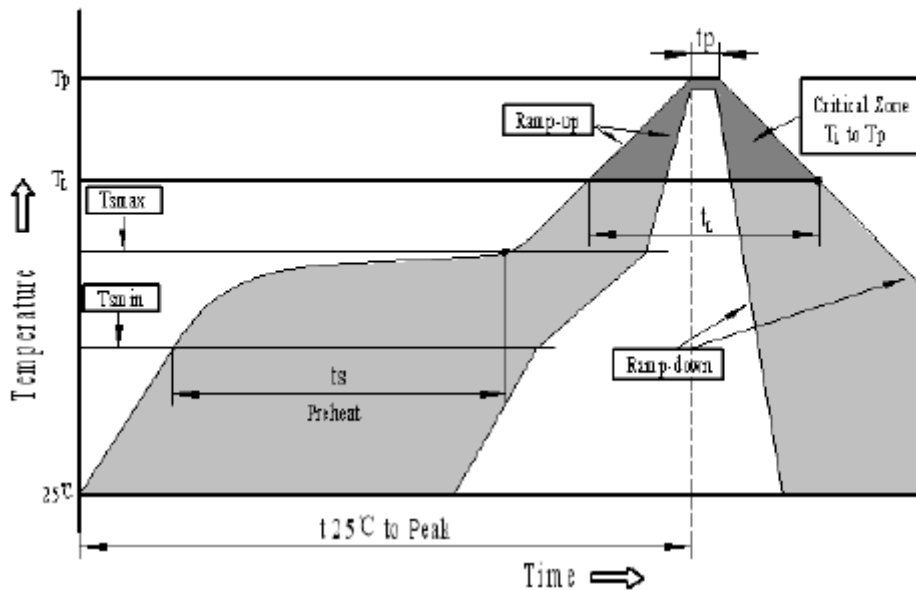
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RELIABLY TEST:

NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
1	High temp. storage life	The part shall be capable of withstanding a storage temperature is +80°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 or more.
2	Low temp. storage life	The part shall be capable of withstanding a storage temperature is -30°C for 120 hours	
3	Temp. Cycle	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	
4	Humidity Test	30±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 <sup>2</sup> ) 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	

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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°Cof actual Peak temperature ( $t_p$ )	6 seconds max.
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

