APPROVAL SHEET FOR PIEZO BUZZER

CUSTOMER No.:

MODEL NO.:

OUR PART NO..:

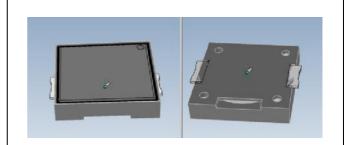
CUSTOMER PART NO.:

CUSTOMER	APPROVED		CHECKED
SIGNECTURE		SIC	GNECTURE
(Customer)		(Company)

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SMD Type		Des.	Chk.		
Model No.:		Part No.		Li YanFei	Jiang Yin
Model No		7/13/2017	7/13/2017		

1. Technical Parameter Measuring condition

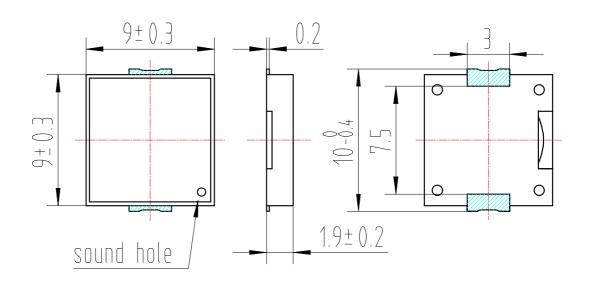
Part shall be measured under a condition (Temperature: $5\sim35^{\circ}\mathrm{C}$, Humidity: $45\%\sim85\%\mathrm{R.H.}$, Atmospheric pressure: $860\sim1060\mathrm{hPa}$) unless the standard condition (Temperature: $25\pm3^{\circ}\mathrm{C}$, Humidity: $60\pm10\%\mathrm{R.H.}$ Atmospheric pressure: $860\sim1060\mathrm{hPa}$) is regulated to measure.



	3	
1	Resonant Frequency	4000±500Hz
2	Operating Voltage	1~20 Vo-p
3	Rated Current	Max.1mA ,at 4KHz 50% duty Square Wave 1.5Vo-p
4	Sound Output at 10cm	Min. 65dB,at 4KHz 50% duty Square Wave 1.5Vo-p
5	Capacitance	9000±30%pF at 1KHz
6	Operating Temperature	-30℃~+70℃
7	Store Temperature	-40℃~+85℃
8	Net Weight	Approx 0.2g
9	RoHS	Yes

2. Dimensions

Unit: mm



*Unit: mm; Tolerance: ±0.3mm Except Specified

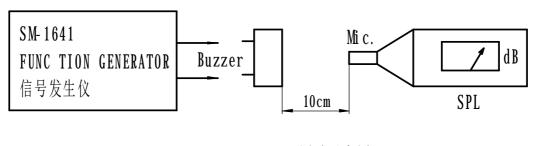
*Housing Material: Black LCP

*Terminal plate: 2 soldering pads, tin Plating Brass

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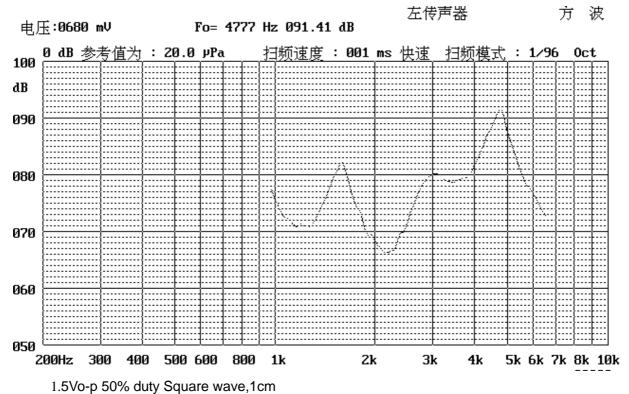
3. Electrical And Acoustical Measuring Condition

Recommended Setting



测试示意图

4. Frequency Response

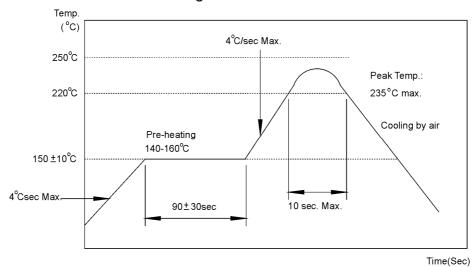


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5. Surface mounting condition

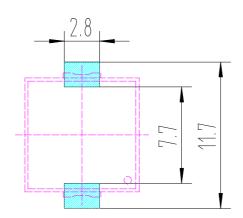
5.1 Reflow soldering

Recommendable reflow soldering condition is as follows.



Note: (1) In automated mounting of the SMD sound transducers on PCB, any bending, expanding and pulling forces or shocks against the SMD sound transducers shall be kept minimum to prevent them from electrical failures and mechanical damages of the devices.
(2) In the reflow soldering, too high soldering temperatures and too large temperature Gradient such as rapid heating or cooling may cause electrical failures and mechanical damages of the devices.

5.2 Soldering pattern



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6. Reliability Test

After any following tests the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall not deviate more than -10 dB from the initial value

6.1 Ordinary Temperature Life Test

The part shall be subjected to 96 hours at $25\pm10^{\circ}$ C. Input rated voltage Resonant frequency, 1/2 duty Square wave.

6.2 High Temperature Test

The part shall be capable of with standing a storage temperature of +80°C for 96 hours.

6.3 Low Temperature Test

The part shall be capable of with standing a storage temperature of -30 ℃ for 96 hours.

6.4 Humidity Test

Temperature:+40°C \pm 3°C Relative Humidity:90% \sim 95% Duration: 48 hours and expose to room temperature for 6 hours

6.5 Temperature Shock Test

Temperature:60°C /1hour \rightarrow 25°C/3hours \rightarrow -20°C/1hour \rightarrow 25°C/3hours (1cycle)

Total cycle: 10 cycles

6.6 Drop Test

Standard Packaging From 120cm(Drop on hard wood or board of 5cm thick, three sides, six plain.)

6.7 Vibration Test

Vibration:1000cycles /min. Amplitude:1.5mm, Duration: 1 hour in each 3 axes

6.8 Reflow Test

Use recommendable reflow soldering condition (as shown in 5.1)

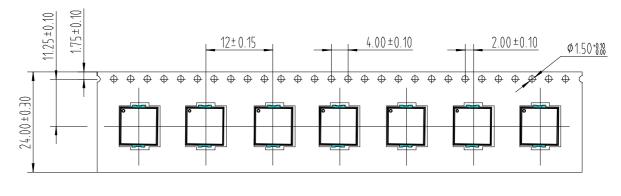
- (1) No abnormality should be found after reflow
- (2) Good soldering to meet soldering requirements

Note:

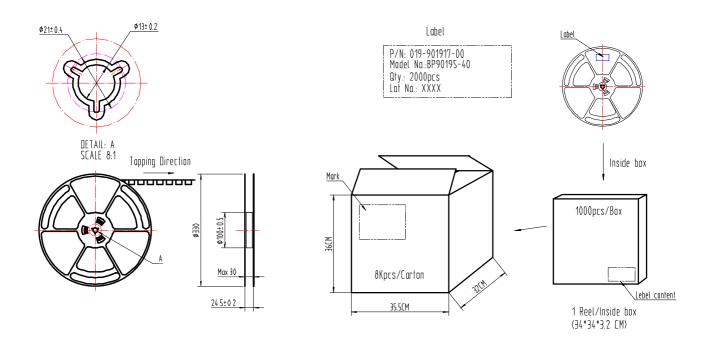
As this product is not protected from foreign material entering, please make sure that any foreign materials (e.g. magnetic powder, washing solvent, flux, corrosive gas) do not enter this product in your production processes. The functional degradation (e.g. SPL down) may occur if foreign material enter it.

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7. Packing







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8. 其他信息			
包装	编带包装: 2000PCS/卷 载带料号: F6-S90191		
	外箱料号: F6-005; 外箱尺寸 35*32*36cm		
	内盒料号: F6-054; 内箱尺寸 76*45.5cm		
	每个载盘用一个大 PE 袋装好再放入内盒; PE 袋料号: F6	-610	
唛头要求			
客户特殊要			
京			
9. 变更记录	<u>.</u> E		
日期	变更项目	备注	确认人
			·