

APPROVAL SHEET FOR PIEZO BUZZER

CUSTOMER:

MODEL NO.:

OUR PART NO..:

CUSTOMER PART NO.:

CUSTOMER	APPROVED	CHECKED

Specification for Piezoelectric Ceramic Buzzer			Page 2 of 7	
SMD Type		Des.	Chk.	
Model No.: Part No.		Li YanFei	Jiang Yin	
Widdel No	Part NO.		7/13/2017	7/13/2017

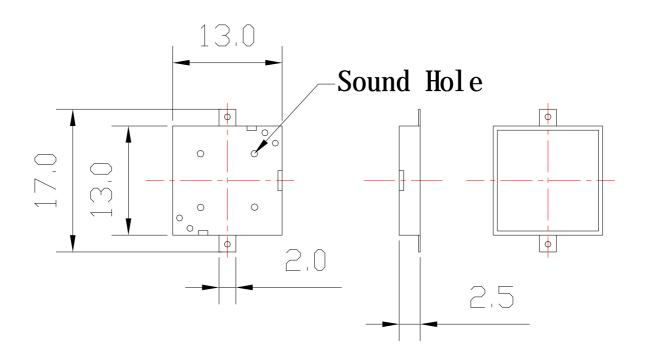
1. Technical Parameter Measuring condition

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

	Transfer of the second	
1	Resonant Frequency	4100±500Hz
2	Operating Voltage	1~20 Vp-p
3	Rated Current	Max.1mA ,at 4.1KHz 50% duty Square Wave 5Vp-p
4	Sound Output at 10cm	Min. 75dB,at 4.1KHz 50% duty Square Wave 5Vp-p
5	Capacitance	15000±30%pF at 1KHz
6	Operating Temperature	-20℃~+70℃
7	Store Temperature	-30℃~+80℃
8	Net Weight	Approx 0.5g
9	RoHS	Yes

2. Dimensions

Unit: mm



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

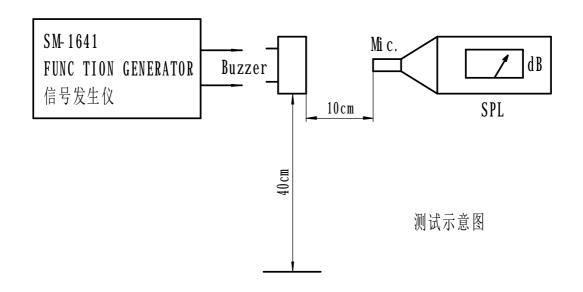
*Housing Material: Black LCP

*Terminal plate: 2 soldering pads, tin Plating Brass (DSn)

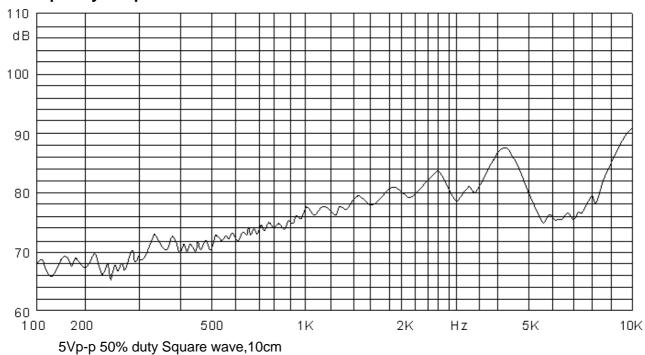
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3. Electrical And Acoustical Measuring Condition

Recommended Setting



4. Frequency Response

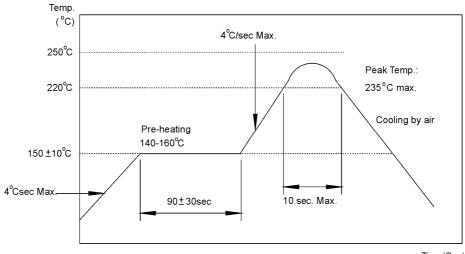


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5. Surface mounting condition

5.1 Reflow soldering

Recommendable reflow soldering condition is as follows.

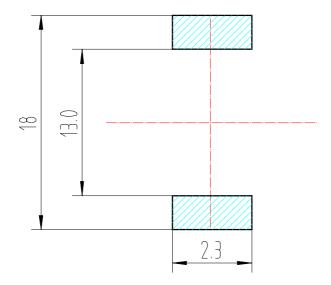


Time(Sec)

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 $+80^{\circ}$ C for 96 hours.

6.3 Low Temperature Test

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

6.4 Humidity Test

Temperature:+ $40^{\circ}\pm 3^{\circ}$ 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 $^{\circ}$ C/3hours \rightarrow -20 $^{\circ}$ C/1hour \rightarrow 25 $^{\circ}$ 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)

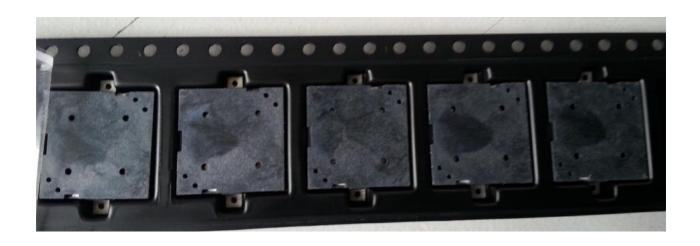
- (1) No abnormality should be found after reflow
- (2) Good soldering to meet soldering requirements

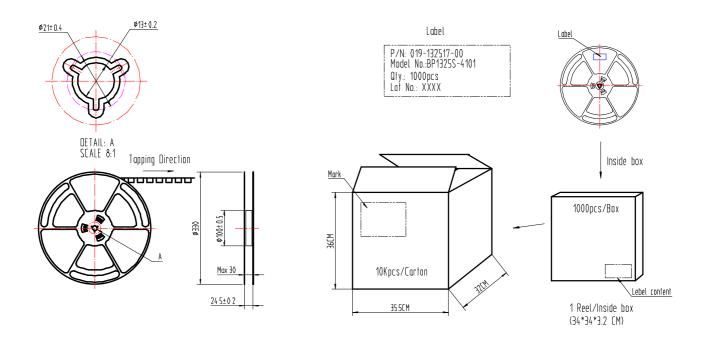
Note:

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: 详见图纸要求		
	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		
	载带料号: F6-S13251		
	每个载盘用一个大 PE 袋装好再放入内盒; PE 袋料号: F6-6	10	
唛头要求			
9. 变更记录			
日期	变更项目	备注	确认人
2015-07-23	客诉焊脚变形(因运输过程载带受最外层几圈产品受压导致 变形),要求载带加保护(我司后续会在载带最外圈加三块泡 沫支架来保护)		唐
2015-11-04	蜂鸣片规格更改,工程变更编号 20151102		唐