

APPROVAL SHEET

FOR

PIEZO BUZZER

CUSTOMER No.:

CLUE No.:

MODEL No.:

OUR PART No.:

CUSTOMER PART No.:

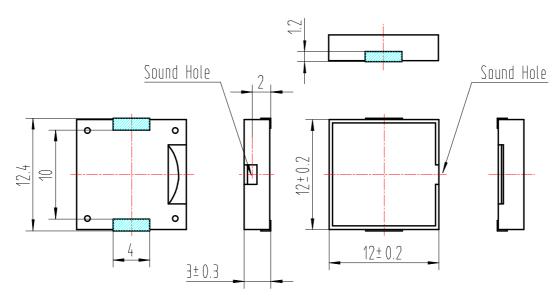
CUSTOMER	APPROVED	CHECKED		

Clue No.:	Specifica	fication for Piezoelectric Ceramic			Page 2 of 6
		Buzzer SMD Type		Des.	Chk.
Model No.:		Part No.:		Wang Min	Jiang Yin
MOUEL NO		Fait No		7/12/2017	7/12/2017

1.	Technical Parameter Measuring	condition						
	Part shall be measured under a condition (Temperature: 5~35°C,							
	Humidity: 45%~85%R.H., Atmospheric pressure: 860 ~1060hPa)							
	unless the standard condition (Temperature: 25±3°C, Humidity:							
	$60\pm10\%$ R.H. Atmospheric pressure: 860 \sim 1060hPa) is regulated to measure.							
1	Resonant Frequency	t Frequency 4000±500Hz						
2	Operating Voltage	1∼25 Vр-р						
3	Rated Current	Max.3mA ,at 4KHz 50% duty Square Wave 5Vp-p						
4	Sound Output at 10cm	Min. 80dB,at 4KHz 50% duty Square Wave 5Vp-p						
5	Capacitance	18000±30%pF at 120Hz						
6	Operating Temperature	-30°C∼+70°C						
7	Store Temperature	-40°C∼+85°C						
8	Net Weight	Approx 0.4g						
9	RoHS	Yes						

2. Dimensions



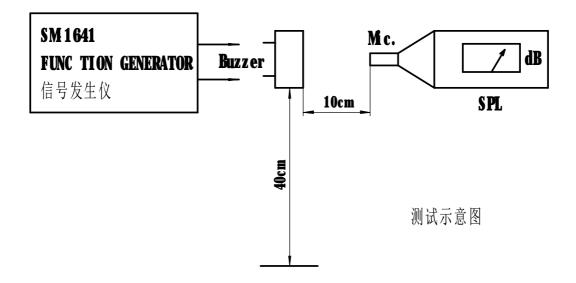


*Unit: mm; Tolerance: ±0.3mm Except Specified *Housing Material: Black LCP *Terminal plate: 2 soldering pads, tin Plating Brass

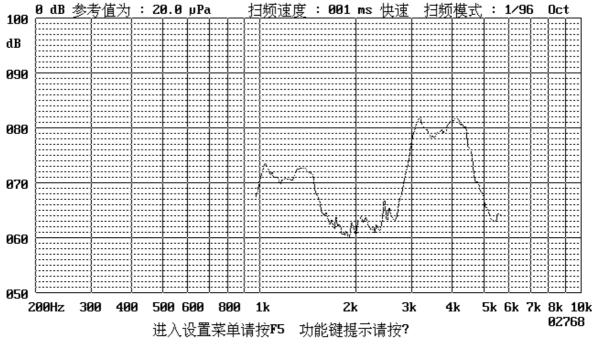
Clue No.:	Spe	cification for Piezoelectric	ication for Piezoelectric Ceramic		Page 3 of 6
		Buzzer SMD Type		Des.	Chk.
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woder No		Part No		7/12/2017	7/12/2017

3. Electrical And Acoustical Measuring Condition

Recommended Setting



4. Frequency Response



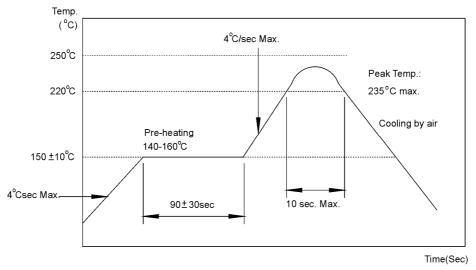
⁵Vp-p 50% duty Square wave,10cm

Clue No.:	Specifica	ication for Piezoelectric Ceramic			Page 4 of 6
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Model No		Fart NO		7/12/2017	7/12/2017

5. Surface mounting condition

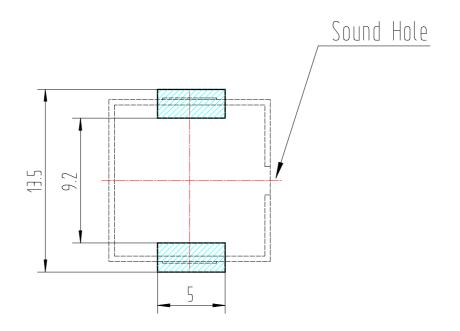
5.1 Reflow soldering

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



Clue No.:	:	Specificat	ication for Piezoelectric Ceramic			Page 5 of 6
		Buzzer SMD Type		Des.	Chk.	
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Woder No			Fart NO		7/12/2017	7/12/2017

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 \pm 10 $^\circ\!{\rm C}$. 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 +85 $^\circ\!\!{\rm C}$ for 96 hours.

6.3 Low Temperature Test

The part shall be capable of with standing a storage temperature of -40 $^\circ\!\!\mathbb{C}$ for 96 hours.

6.4 Humidity Test

Temperature:+40 $^\circ\!C\pm3\,^\circ\!C$ 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→ 25°C/3hours→-20°C/1hour→ 25°C/3hours (1cycle) Total cycle: 10 cycles

6.6 Drop Test

Standard Packaging From 75cm(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.

Clue No.:	Specifica	fication for Piezoelectric Ceramic			Page 6 of 6
		Buzzer SMD Type		Des.	Chk.
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7. Packing

