



APPROVAL SHEET
FOR
MAGNETIC BUZZER

ILOSAM ELECTRONICS CO., LTD.

CLUE No.:

MODEL No.: SM-12C

OUR PART No.:

DOCUMENT No.:

CUSTOMER	APPROVED	CHECKED

	Specification for Electro-Magnetic Buzzer With built-in oscillating circuit (Pin Type)				Page 2 of 6
				Des.	Chk.
Model No.:	SM-12C	Part No.		Chen Hong	Chen Jun
				1/9/2023	1/9/2023

1. Document revision history				
修改时间	版本	修改页次	修改内容	确认人

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2. Technical Parameter

Measuring condition

Part shall be measured under a condition (Temperature: 5~35℃, Humidity: 45%~85%R.H.,

Atmospheric pressure: 860 ~ 1060hPa) unless the standard condition (Temperature: 25±3℃,

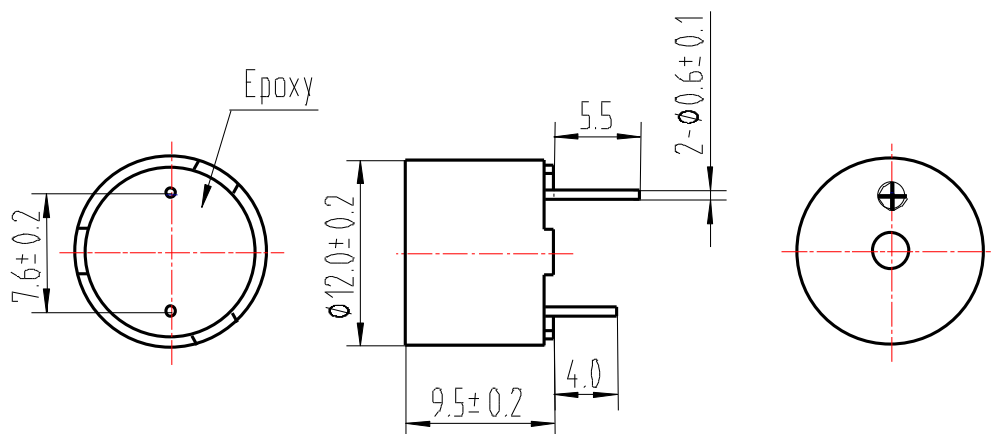
Humidity: 60±10%R.H. Atmospheric pressure: 860 ~ 1060hPa) is regulated to measure.



	Model NO	SM-1203C	SM-1205C	SM-1212C
1	Rated Voltage	3VDC	5VDC	12VDC
2	Operating Voltage	2-5VDC	4-8VDC	9-15VDC
3	Rated Current	Max.30mA, at 3VDC	Max.30mA, at 5VDC	Max.30mA, at 12VDC
4	Sound Output at 10cm	Min.80dB, at 3VDC	Min.85dB, at 5VDC	Min.90dB, at 12VDC
5	Resonant Frequency	2400±300 Hz		
6	Tone	Continuous		
7	Operating Temperature	-20- +70℃		
8	Storage Temperature	-30 - +80℃		
9	RoHS	Yes		
10	Weight	Approx 1.7g		

3. Dimensions

Unit: mm



*Housing Material: Black PBT

Tolerance: ±0.5mm Except Specified

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4. 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

4.1 Ordinary Temperature Life Test

The part shall be subjected to 96 hours at $25 \pm 10^{\circ}\text{C}$. Input rated voltage
Resonant frequency, 1/2 duty Square wave.

4.2 High Temperature Test

The part shall be capable of with standing a storage temperature of $+80^{\circ}\text{C}$ for 96 hours.

4.3 Low Temperature Test

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

4.4 Humidity Test

Temperature: $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Relative Humidity: 90%~95% Duration: 48 hours
and expose to room temperature for 6 hours

4.5 Temperature Shock Test

Temperature: 70°C /1hour→ 25°C /3hours→ -30°C /1hour→ 25°C /3hours (1cycle)
Total cycle: 10 cycles

4.6 Drop Test

Standard Packaging From 75cm(Drop on hard wood or board of 5cm thick,
three sides, six plain.)

4.7 Vibration Test

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

Note:

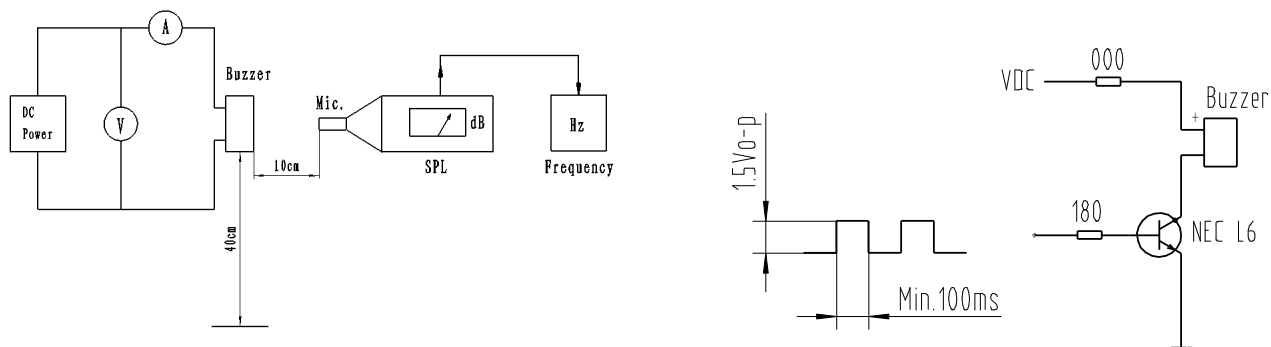
As this product is not protected from foreign material entering, please make sure that any foreign materials (e.g. magnetic powder, washing solvent, flux, corrosive gas) do not enter this product in your production processes. The functional degradation (e.g. SPL down) may occur if foreign material enter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

5. Electrical And Acoustical Measuring Condition

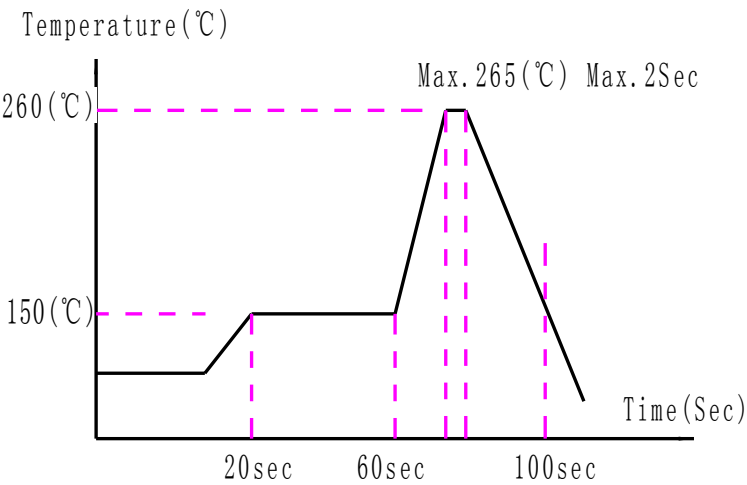
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a) Recommended Setting

b) Recommended Test Circuit



6. Recommended the wave soldering temperature



7.Packing

包装要求	1.12 型泡沫盒长蜂，1000pcs 一堆；5 堆/箱；5000pcs/箱 2.泡沫料号：F6-P-011(盒)，F6-G-023（盖） 3.外箱料号：F6-X-002；外箱尺寸 50*41*25cm
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唛头要求	内盒：	外箱：
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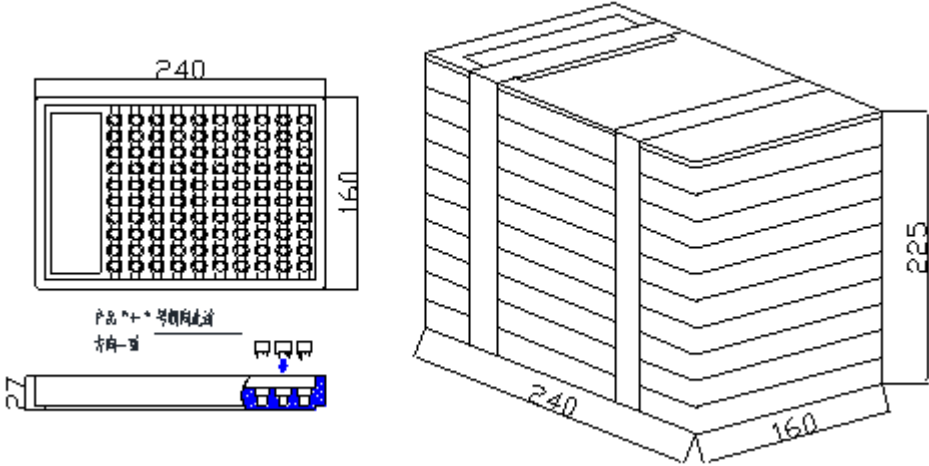


Fig.1

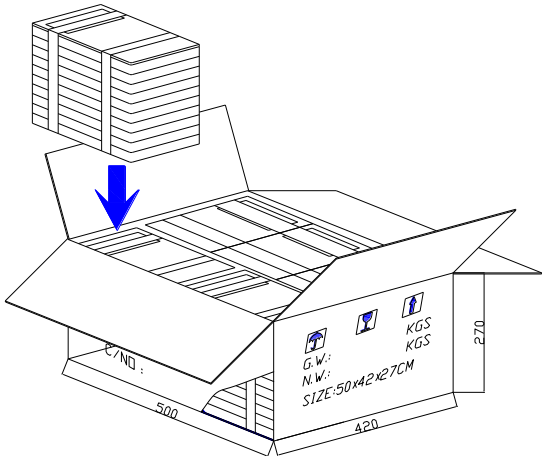


Fig.2

	包装名称	包装数量 (pcs)	包装尺寸 (mm)	图解
1	泡沫盒	100	240×160×24	Fig. 1
2	一叠	1000	240×160×225	Fig. 1
3	箱子	5000	500×420×270	Fig. 2