APPROVAL SHEET

FOR

MAGNETIC BUZZER

CUSTOMER:

MODEL NO.:

OUR PART NO..:

CUSTOMER PART NO.:

CUSTOMER	APPROVED	CHECKED

1. Technical Parameter

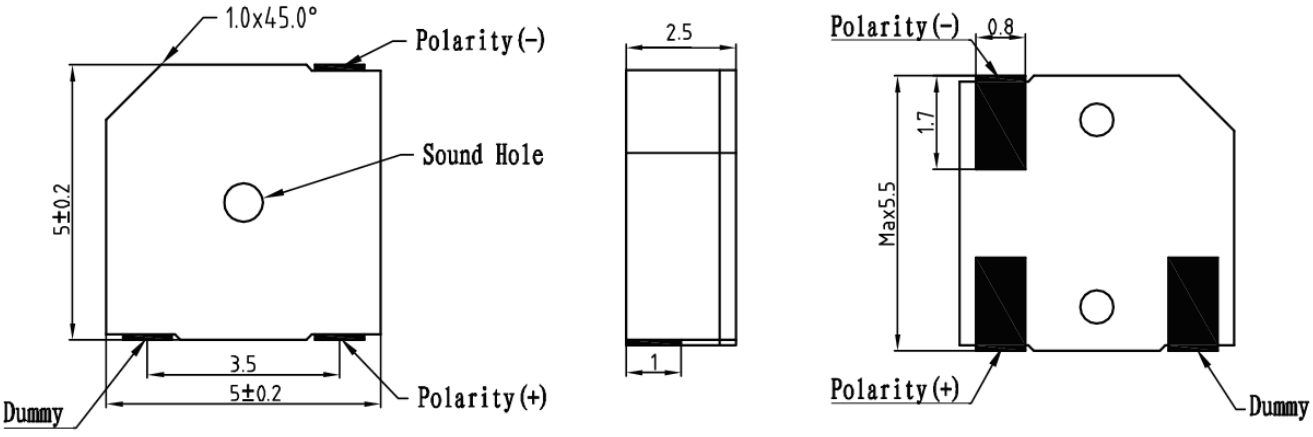
Measuring condition

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.

1	Rated Voltage	3.0 Vo-p
2	Operating Voltage	2.5～4.5 Vo-p
3	Rated Current	Max.100mA ,at 4000Hz 50% duty Square Wave 3.0Vo-p
4	Sound Output at 10cm	Min. 75dB,at 4000Hz 50% duty Square Wave 3.0Vo-p
5	Coil Resistance	12±3Ω
6	Resonant Frequency	4000Hz
7	Operating Temperature	-20℃～+70℃
8	Store Temperature	-40℃～+85℃
9	Net Weight	Approx 0.1g
10	RoHS	Yes

2. Dimensions

Unit: mm



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

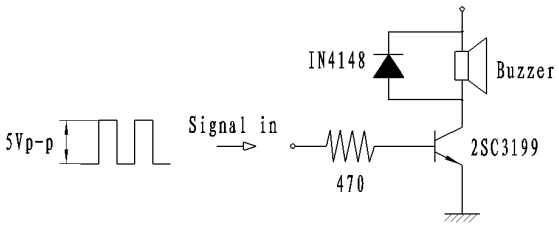
*Housing Material: Plastic, LCP Vectra E130i

*Diaphagm:Ni Alloy Disc N50

*Terminal plate: 3 soldering pads, tin Plating Brass

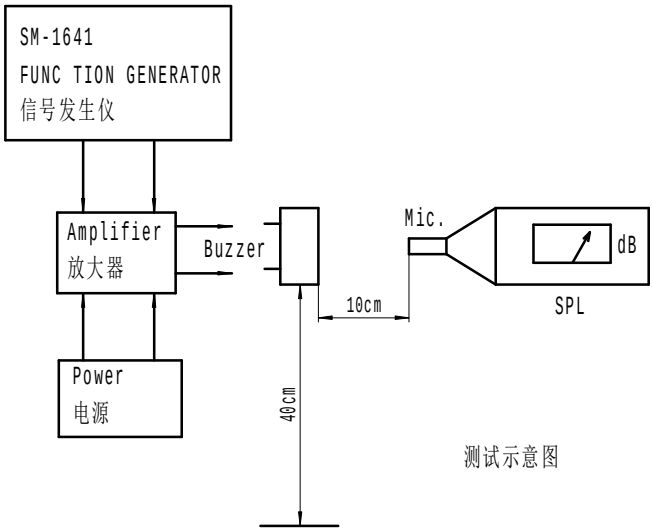
3. Electrical And Acoustical Measuring Condition

Recommended Driving Circuit



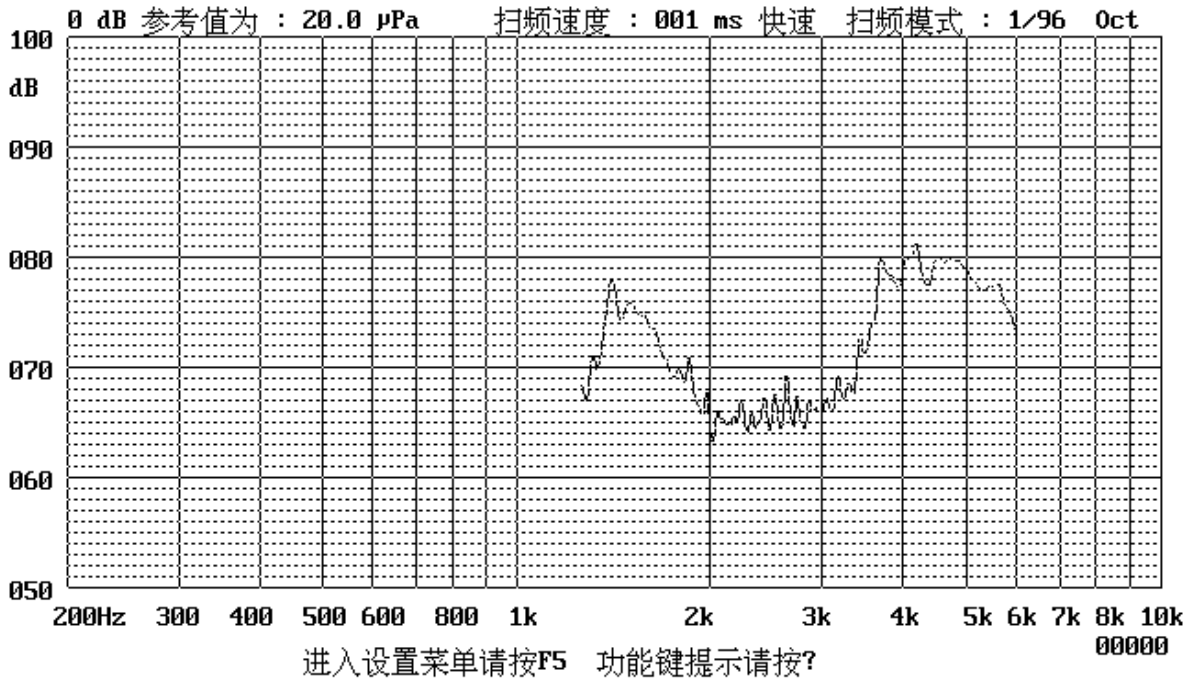
Resonant frequency, 1/2 duty cycle. Square wave. Signal amplitude should be large enough tosaturate the transistor.

Recommended Setting



测试示意图

4. Frequency Response

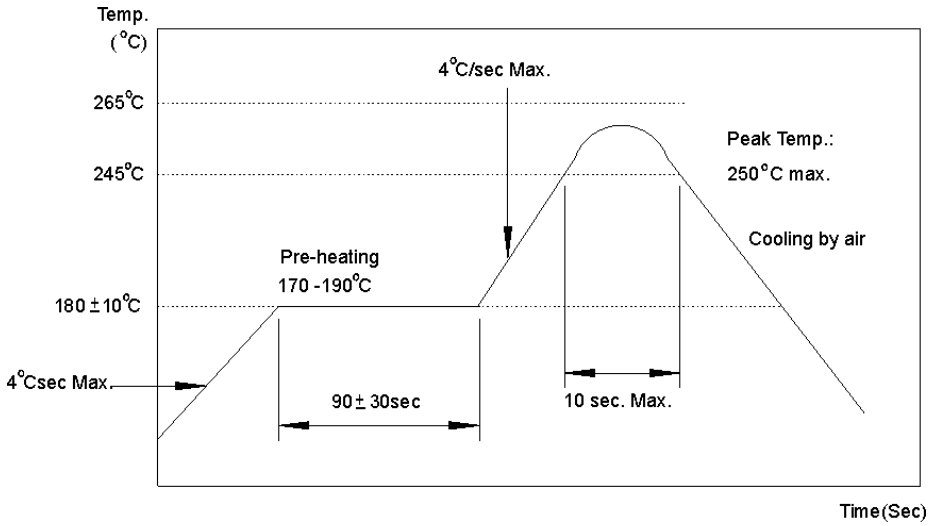


3.0Vo-p 50% duty Square wave,10cm

5. Surface mounting condition

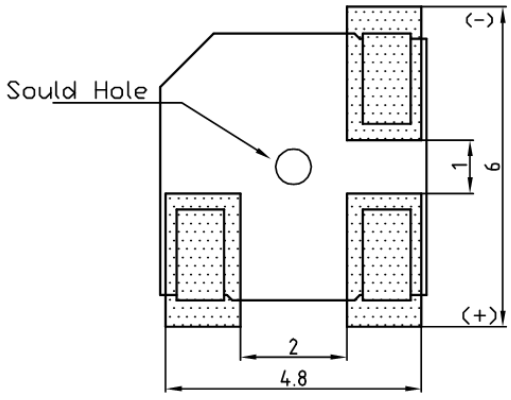
5.1 Reflow soldering

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



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 1000hours at 25±10℃. 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 +90℃ for 96 hours.

6.3 Low Temperature Test

The part shall be capable of with standing a storage temperature of -40℃ for 96 hours.

6.4 Humidity Test

+25℃±2℃,90%～95% ,5hours→ +55℃±2℃,90%～95% ,5hours, (1cycle)
Total cycle: 10 cycles, and expose to room temperature for 6 hours

6.5 Temperature Shock Test

-40℃±2℃,30min→+20℃,15min→+85℃±2℃,30min→+20℃,15min(1cycle)
Total cycle: 5cycles

6.6 Drop Test

Standard Packaging From 75cm(Drop on hard wood or board of 10mm thick, three sides, six plain.)

6.7 Vibration Test

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

6.8 Soldering Heat Resistance

Samples put through reflowing soldering oven 2 twice

6.9 Warranty

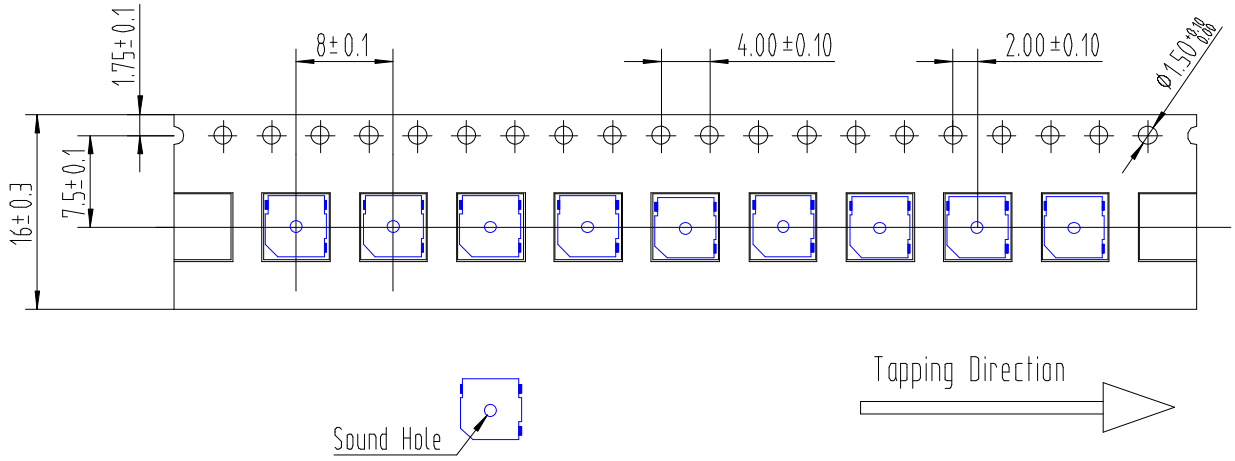
For a period of one year from date of manufacture under normal operations

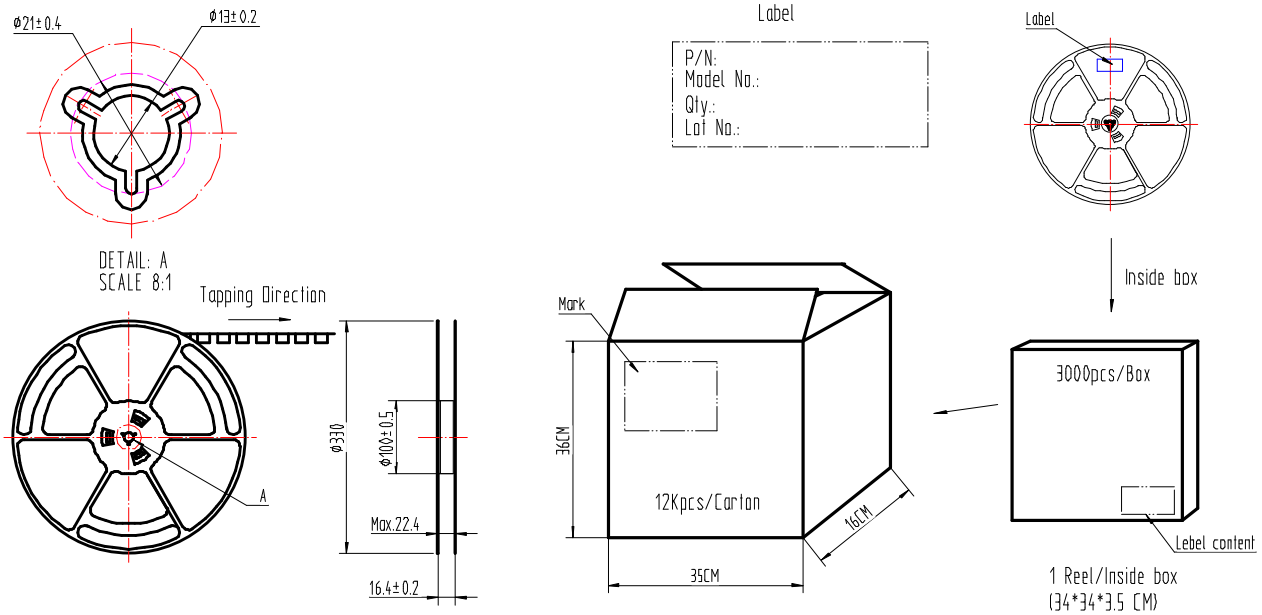
Use recommendable reflow soldering condition (as shown in 5.1)
(1) No abnormality should be found after reflow
(2) Good soldering to meet soldering requirements

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.

7 Packing


1.75±0.1
8±0.1
4.00±0.10
2.00±0.10
Ø1.50+0.10
16±0.3
7.5±0.1
Sound Hole
Tapping Direction


Ø21±0.4
Ø13±0.2
DETAIL: A
SCALE 8:1
Tapping Direction
Ø330
Ø100±0.5
Max.22.4
16.4±0.2
A
Label
P/N:
Model No.:
Qty.:
Lot No.:
Label
Inside box
3000pcs/Box
Mark
36CM
12Kpcs/Carton
16CM
35CM
Lebel content
1 Reel/Inside box
(34*34*3.5 CM)