

Electro-Magnetic Buzzer with built-in oscillating circuit (Pin Type)

2-3	HCM1201X
4-5	HCM1203X
6-7	HCM1205X
8-9	HCM1206X
10-11	HCM1606X
12-13	HCM1212X
14-15	HCM1612X
16-17	HCM0903AX

1. Product type: Electro-Magnetic Buzzer with built-in oscillating circuit (Pin Type)

2. 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,

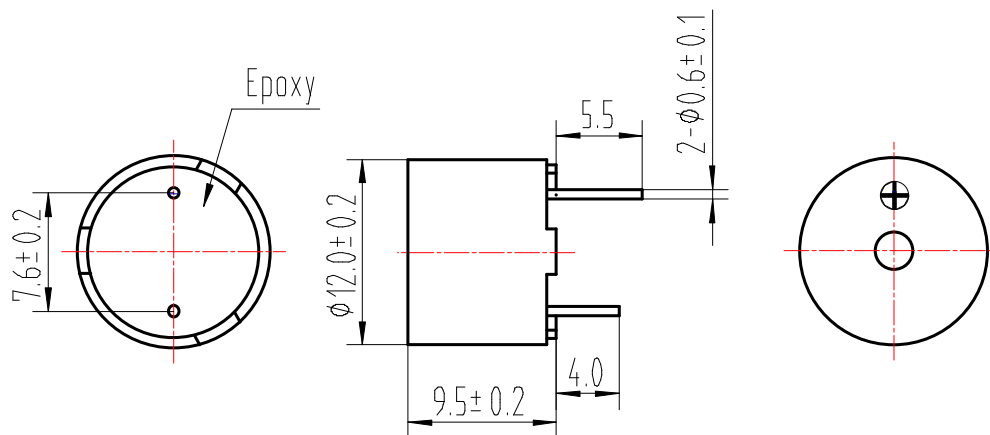
Humidity: 60±10%R.H. Atmospheric pressure: 860 ~ 1060hPa) is regulated to measure.



1	Rated Voltage	1.5VVDC
2	Operating Voltage	1.3-2VDC
3	Rated Current	Max.20mA, at1.5VDC
4	Sound Output at 10cm	Min.75dB, at 1.5VDC
5	Resonant Frequency	2300 ± 300 Hz
6	Tone	Continuous
7	Operating Temperature	-40- +85°C
8	Storage Temperature	-40 - +85°C
9	RoHS	Yes
10	Weight	Approx 1.7g

3. Dimensions

Unit: mm

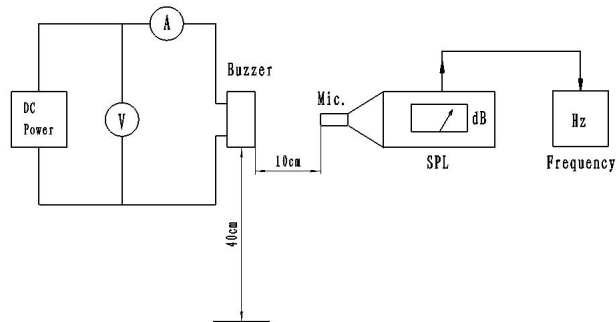


*Housing Material: Black PBT

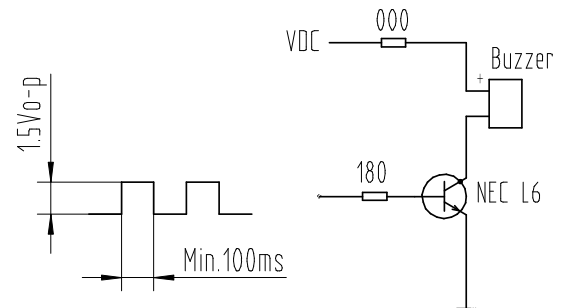
Tolerance: ± 0.5 mm Except Specified

5. Electrical And Acoustical Measuring Condition

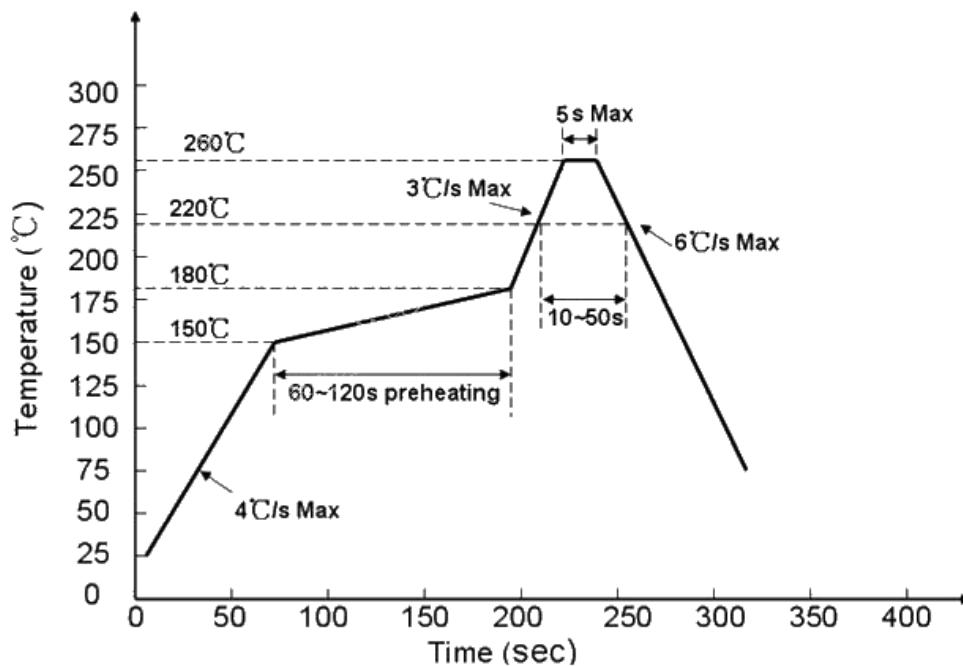
a) Recommended Setting



b) Recommended Test Circuit



6. Recommended the wave soldering temperature



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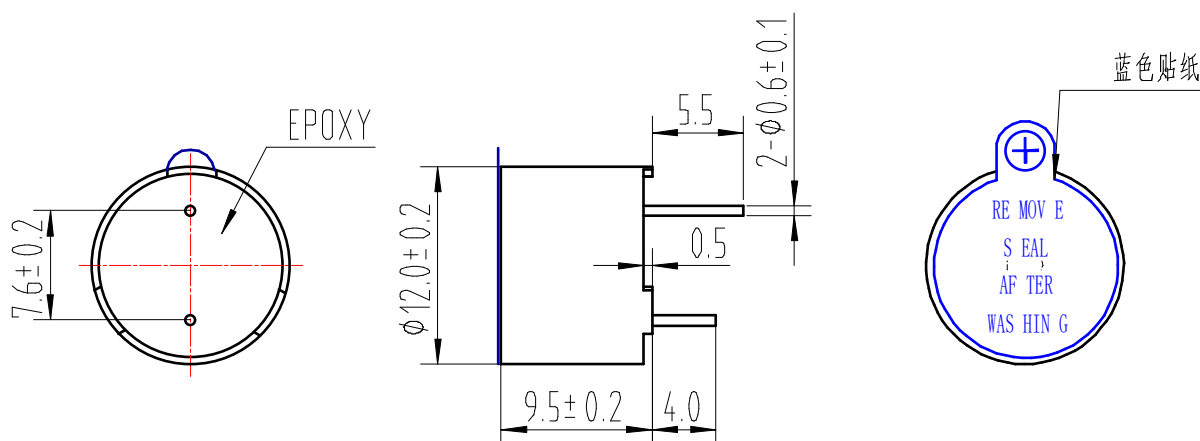
Humidity: 60±10%R.H. Atmospheric pressure: 860 ~ 1060hPa) is regulated to measure.



1	Rated Voltage	3VDC
2	Operating Voltage	2-5VDC
3	Rated Current	Max.30mA, at 3VDC
4	Sound Output at 10cm	Min.85dB, at 3VDC
5	Resonant Frequency	2300 ± 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

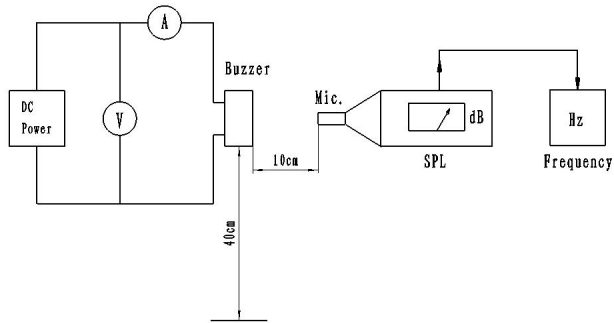


*Housing Material: Black PBT

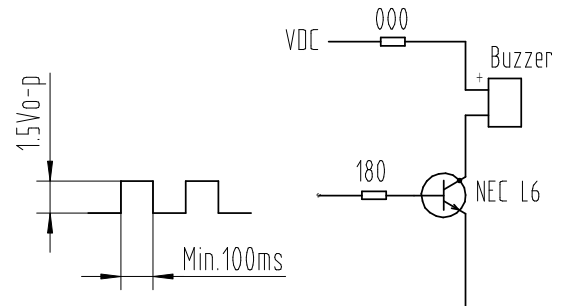
Tolerance: ±0.5mm Except Specified

5. Electrical And Acoustical Measuring Condition

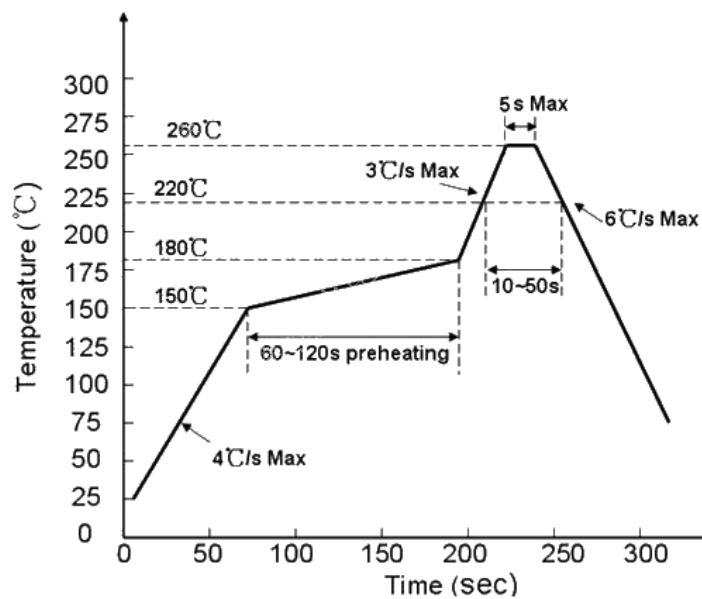
a) Recommended Setting



b) Recommended Test Circuit



6. Recommended the wave soldering temperature



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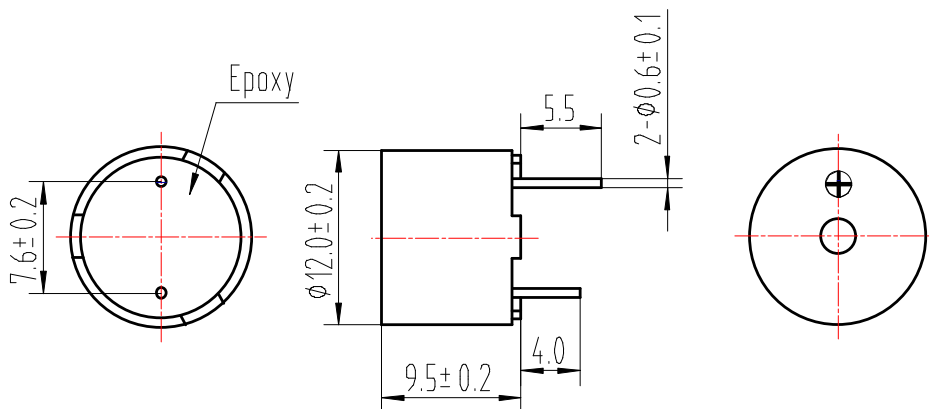
Humidity: 60±10%R.H. Atmospheric pressure: 860 ~ 1060hPa) is regulated to measure.



1	Rated Voltage	5VDC
2	Operating Voltage	3-8VDC
3	Rated Current	Max.30mA, at 5VDC
4	Sound Output at 10cm	Min.85dB, at 5VDC
5	Resonant Frequency	2300± 300 Hz
6	Tone	Continuous
7	Operating Temperature	-20- +70°C
8	Storage Temperature	-30 - +80°C
9	RoHS	Yes
10	Weight	Approx 1.7g

3. Dimensions

Unit: mm

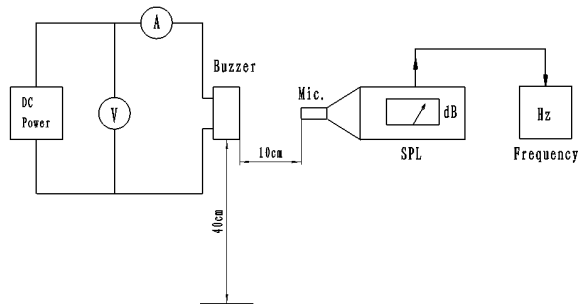


*Housing Material: Black PBT

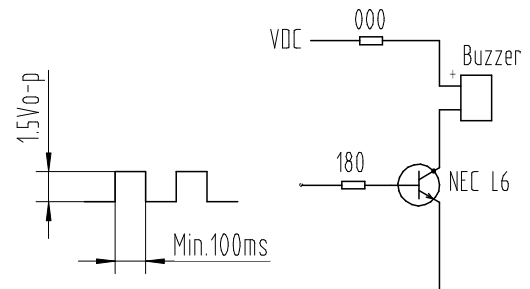
Tolerance: $\pm 0.5\text{mm}$ Except Specified

5. Electrical And Acoustical Measuring Condition

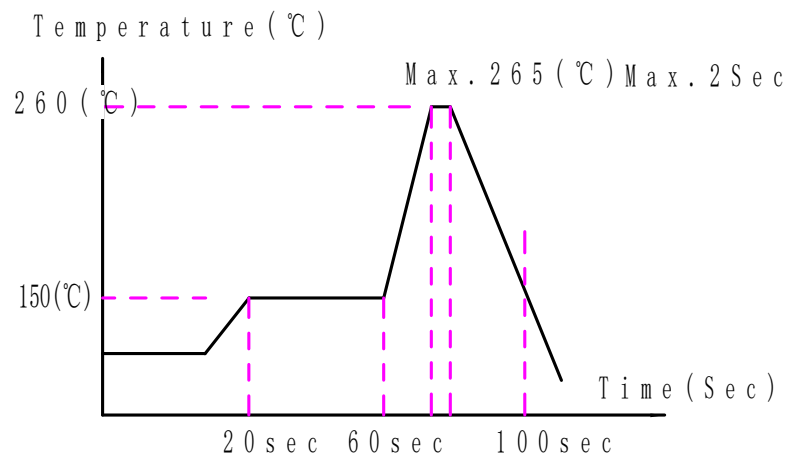
a) Recommended Setting



b) Recommended Test Circuit



6. Recommended the wave soldering temperature



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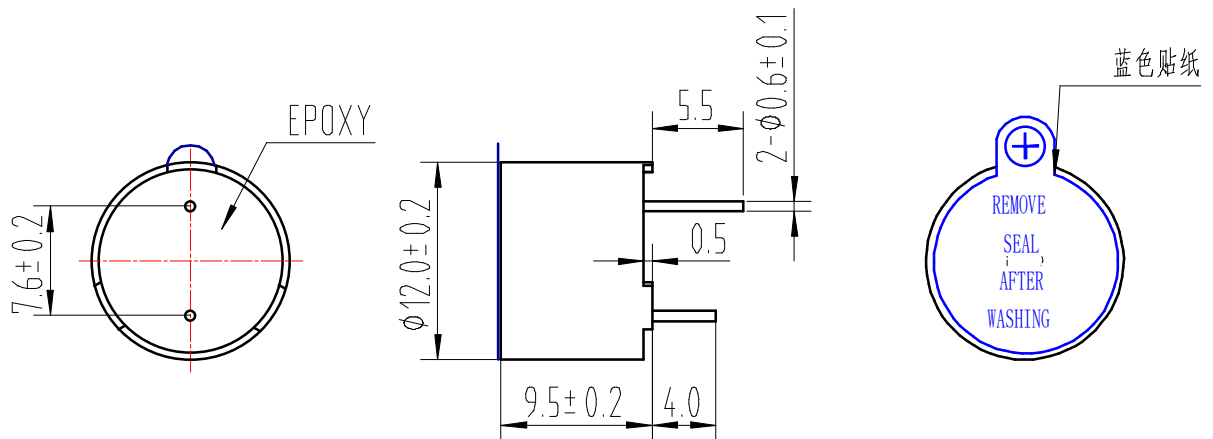
Humidity: 60±10%R.H. Atmospheric pressure: 860 ~ 1060hPa) is regulated to measure.



1	Rated Voltage	6VDC
2	Operating Voltage	4-7VDC
3	Rated Current	Max.30mA, at 6VDC
4	Sound Output at 10cm	Min.85dB, at 6VDC
5	Resonant Frequency	2300 ± 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

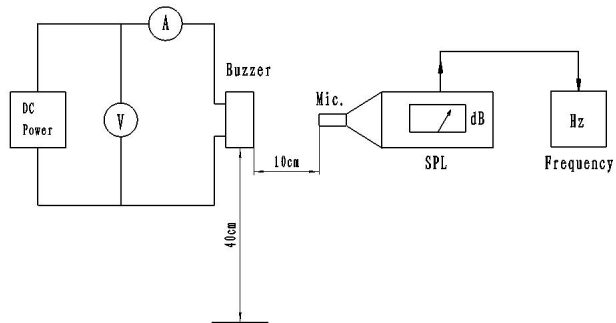


*Housing Material: Black PBT

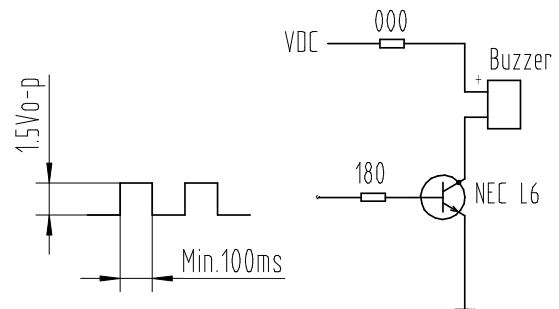
Tolerance: ±0.5mm Except Specified

5. Electrical And Acoustical Measuring Condition

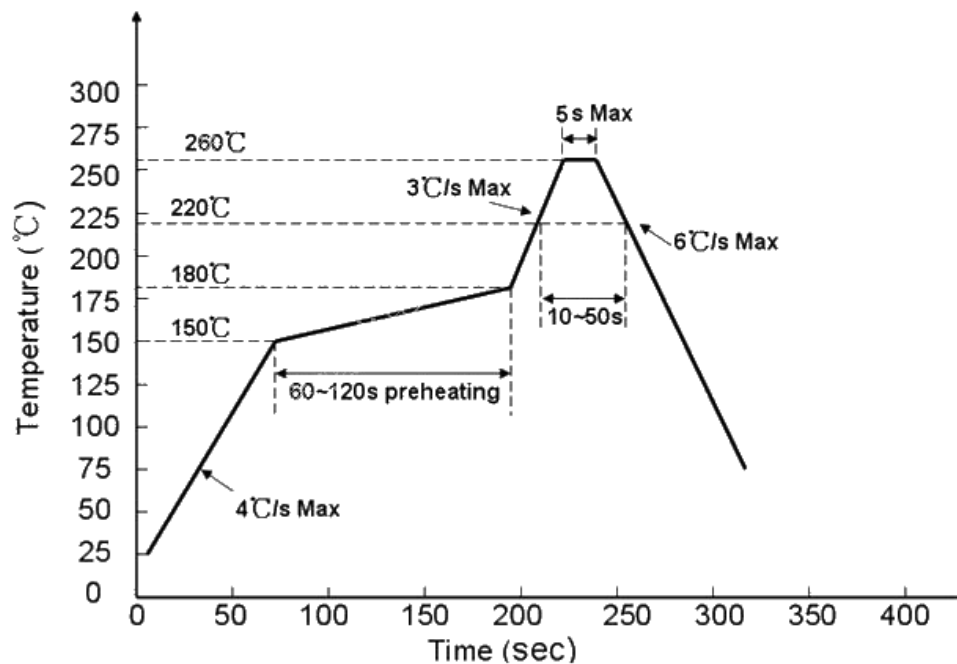
a) Recommended Setting



b) Recommended Test Circuit



6. Recommended the wave soldering temperature



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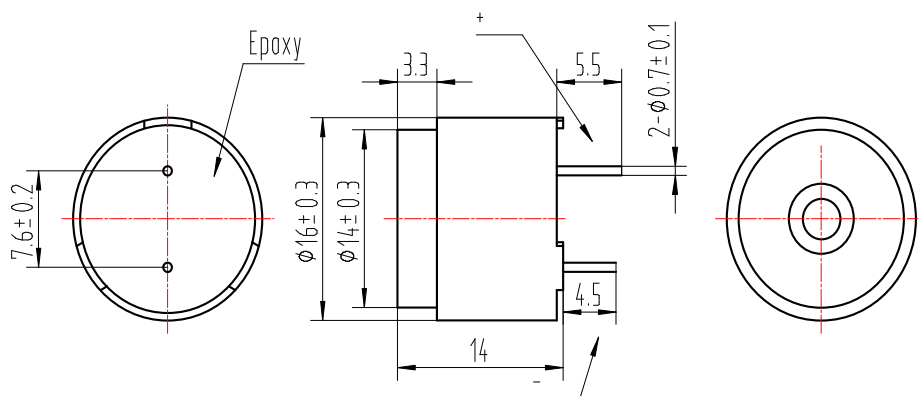
2. Technical Parameter Measuring condition

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1	Rated Voltage	6VDC
2	Operating Voltage	4-8VDC
3	Rated Current	Max.30mA, at 6VDC
4	Sound Output at 10cm	Min.85dB, at 6VDC
5	Resonant Frequency	2300 ± 300 Hz
6	Tone	Continuous
7	Operating Temperature	-30 - +85℃
8	Storage Temperature	-40 - +85℃
9	RoHS	Yes
10	Weight	Approx 5.0g

3. Dimensions

Unit: mm

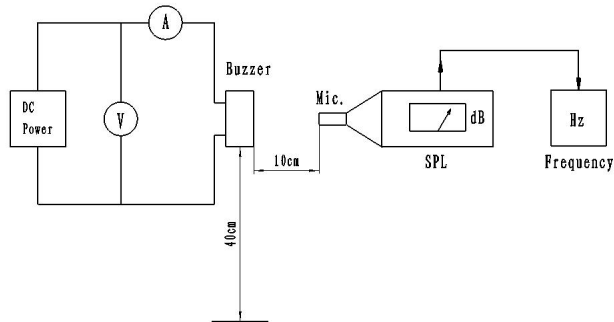


*Unit: mm; Tolerance: ±0.5mm Except Specified

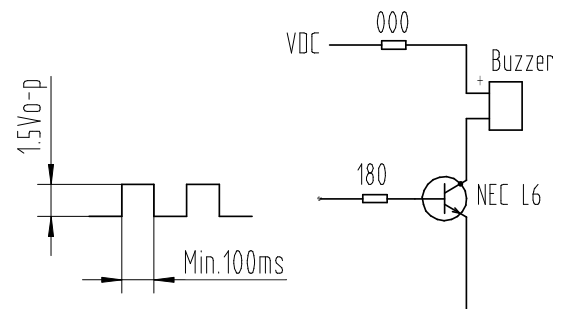
*Housing Material: Black PPO

5. Electrical And Acoustical Measuring Condition

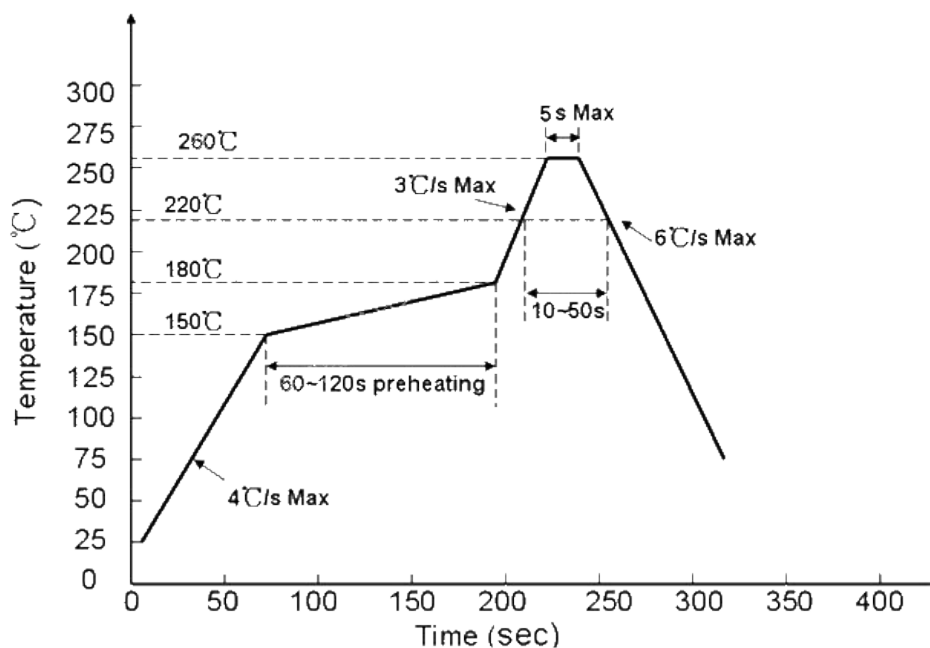
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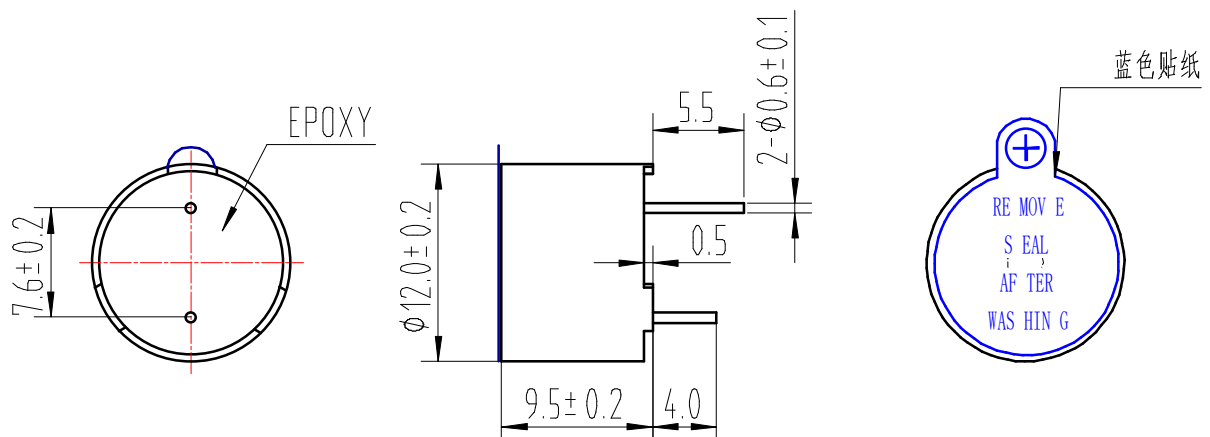
Humidity: 60±10%R.H. Atmospheric pressure: 860 ~ 1060hPa) is regulated to measure.



1	Rated Voltage	12VDC
2	Operating Voltage	7-15VDC
3	Rated Current	Max.30mA, at 12VDC
4	Sound Output at 10cm	Min.90dB, at 12VDC
5	Resonant Frequency	2300±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

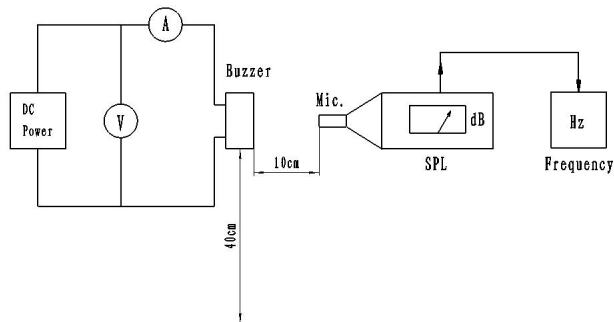


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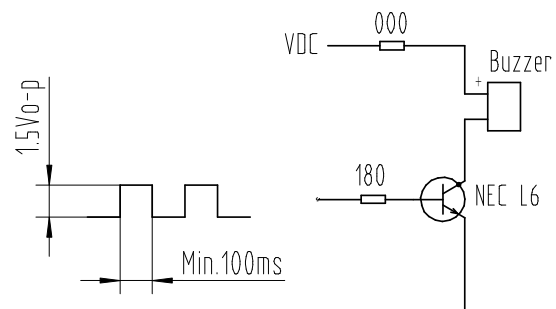
Tolerance: ±0.5mm Except Specified

5. Electrical And Acoustical Measuring Condition

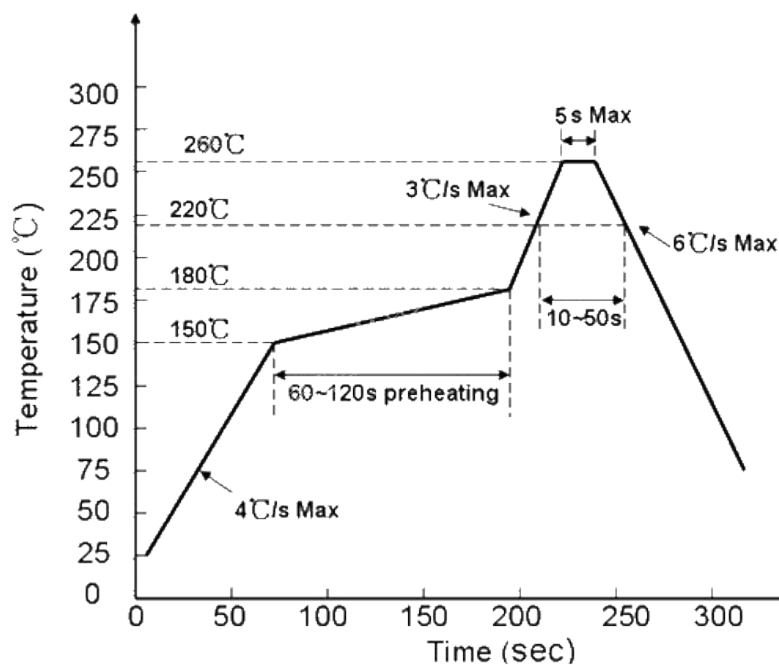
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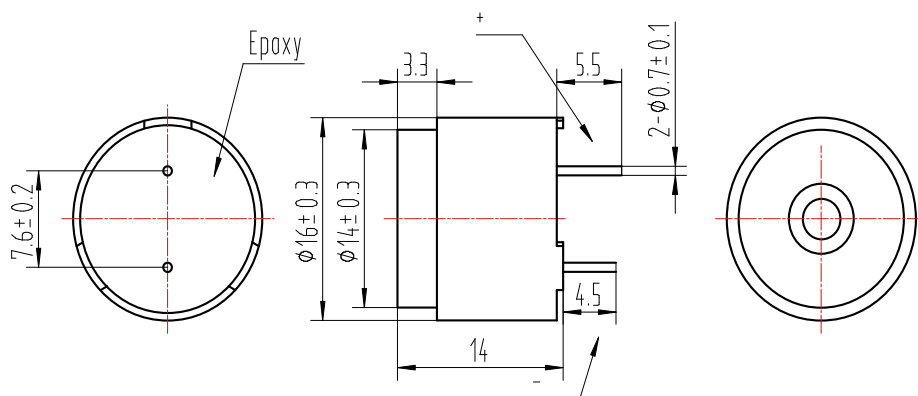
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1	Rated Voltage	12VDC
2	Operating Voltage	8-15VDC
3	Rated Current	Max.30mA, at 12VDC
4	Sound Output at 10cm	Min.85dB, at 12VDC
5	Resonant Frequency	2300 ± 300 Hz
6	Tone	Continuous
7	Operating Temperature	-30 - +85℃
8	Storage Temperature	-40 - +85℃
9	RoHS	Yes
10	Weight	Approx 5.0g

3. Dimensions

Unit: mm

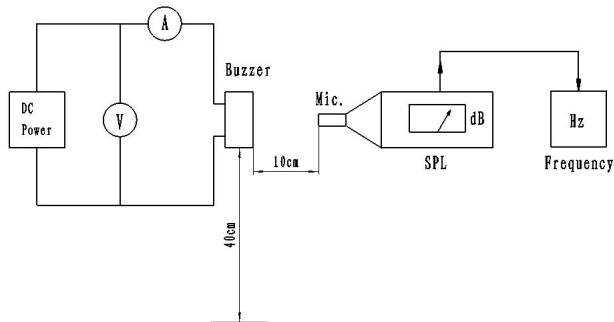


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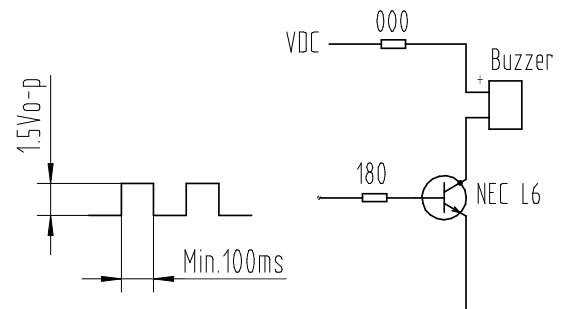
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5. Electrical And Acoustical Measuring Condition

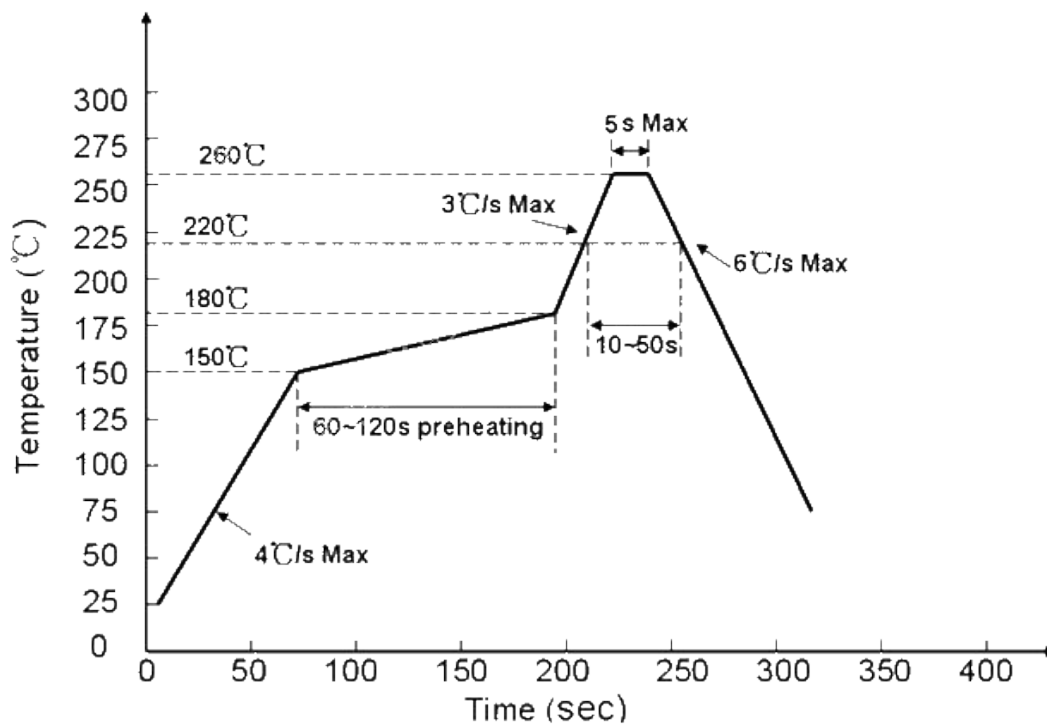
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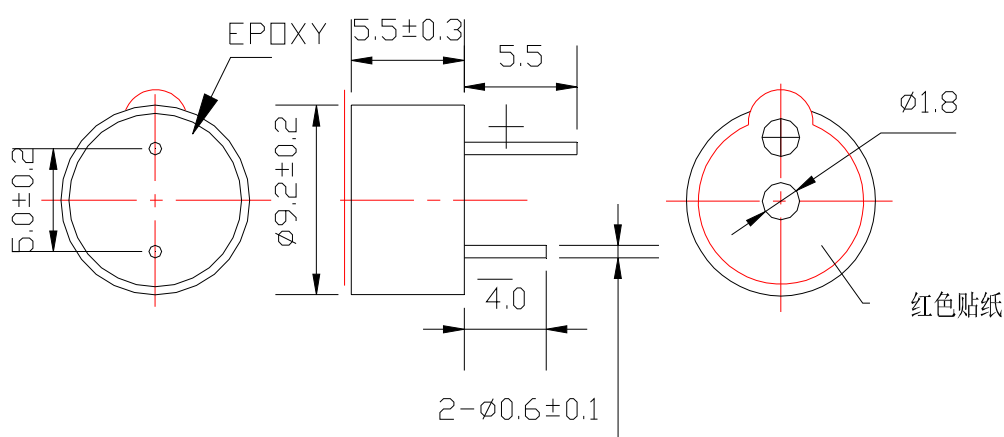
Part shall be measured under a condition (Temperature: $5 \sim 35^{\circ}\text{C}$, Humidity: 45% ~ 85%R.H., Atmospheric pressure: 860 ~ 1060hPa) unless the standard condition (Temperature: $25 \pm 3^{\circ}\text{C}$, Humidity: 60 \pm 10%R.H. Atmospheric pressure: 860 ~ 1060hPa) is regulated to measure.



1	Rated Voltage	3 VDC
2	Operating Voltage	2-6VDC
3	Rated Current	Max.30mA, at 3VDC
4	Sound Output at 10cm	Min.80dB, at 3VDC
5	Resonant Frequency	2800 ± 300 Hz
6	Tone	Continuous
7	Operating Temperature	$-20 - +70^{\circ}\text{C}$
8	Storage Temperature	$-30 - +80^{\circ}\text{C}$
9	RoHS	Yes
10	Weight	Approx 0.7g

3. Dimensions

Unit: mm

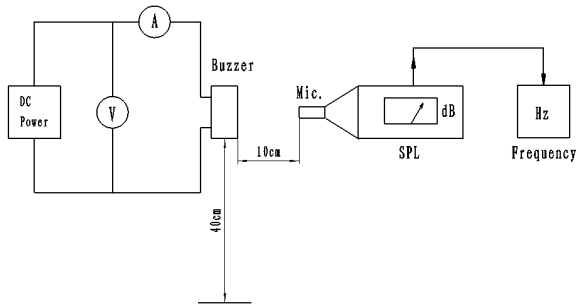


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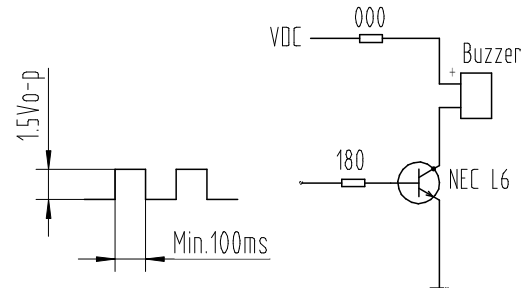
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