

Piezoelectric Ceramic Buzzer with built-in oscillating circuit (Wire Type)

- 2** KSE-D-2312
- 3** KSE-D-2310-E

Piezoelectric Ceramic Buzzer with built-in oscillating circuit (Pin Type)

- 4** KSE-PB-23*16-C2
- 5** HPA24AX
- 6** KSE-D-1407B-05
- 7** HPM14AX

- 8** Electrical And Acoustical Measuring Condition and Recommended wave soldering temperature

Piezoelectric Ceramic Buzzer
1. Product type: Piezoelectric Ceramic Buzzer with built-in oscillating circuit (Wire 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.

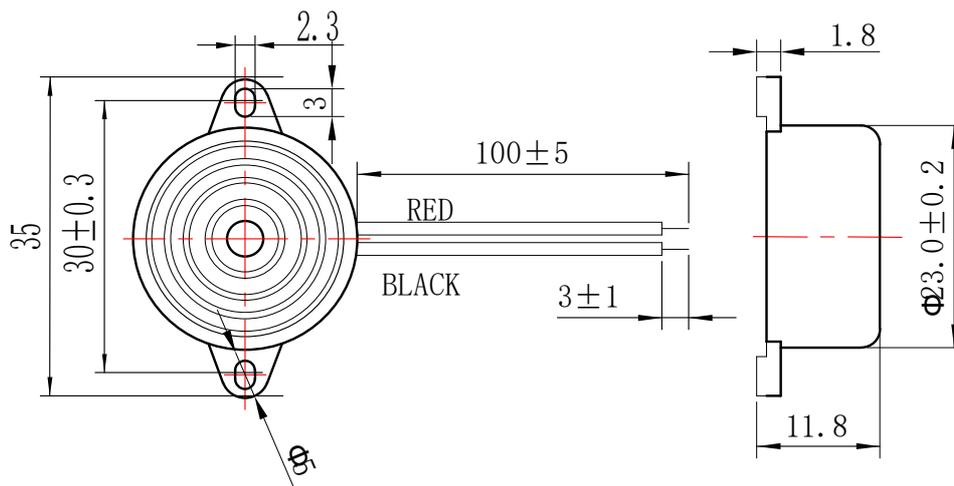


1	Rated Voltage	12VDC
2	Operating Voltage	6– 15 VDC
3	Rated Current	Max.20mA, at12VDC
4	Sound Output at 30cm	Min.85dB, at 12VDC
5	Resonant Frequency	3500± 500 Hz
6	Tone	Continuous
7	Operating Temperature	-20 - +70 °C
8	Storage Temperature	-30 - +80 °C
9	RoHS	Yes
10	Weight	Approx 4.5g

3. Dimensions

Unit: mm

Tolerance± 0.5mm Except Specified



*Housing Material: Black ABS Lead Wire:UL1007 28#

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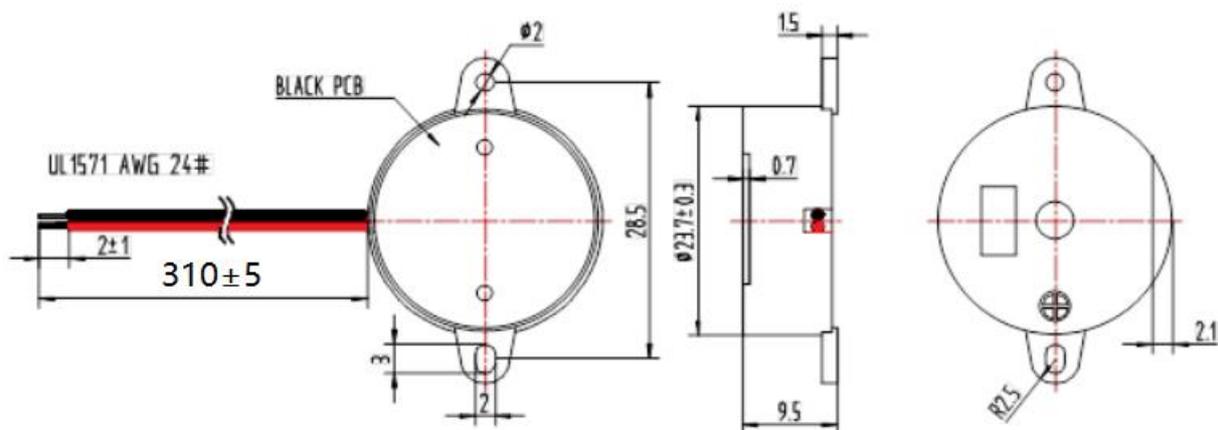


1	Rated Voltage	24VDC
2	Operating Voltage	15– 28 VDC
3	Rated Current	Max.30mA, at 24VDC
4	Sound Output at 10cm	Min95dB at 24VDC
5	Resonant Frequency	3500 ± 500 Hz
6	Tone	Continuous
7	Operating Temperature	-20 - +70°C
8	Storage Temperature	-30 - +80°C
9	RoHS	Yes
10	Weight	Approx 3g

3. Dimensions

Unit: mm

Tolerance: ± 0.5mm Except Specified



*Housing Material: Black ABS

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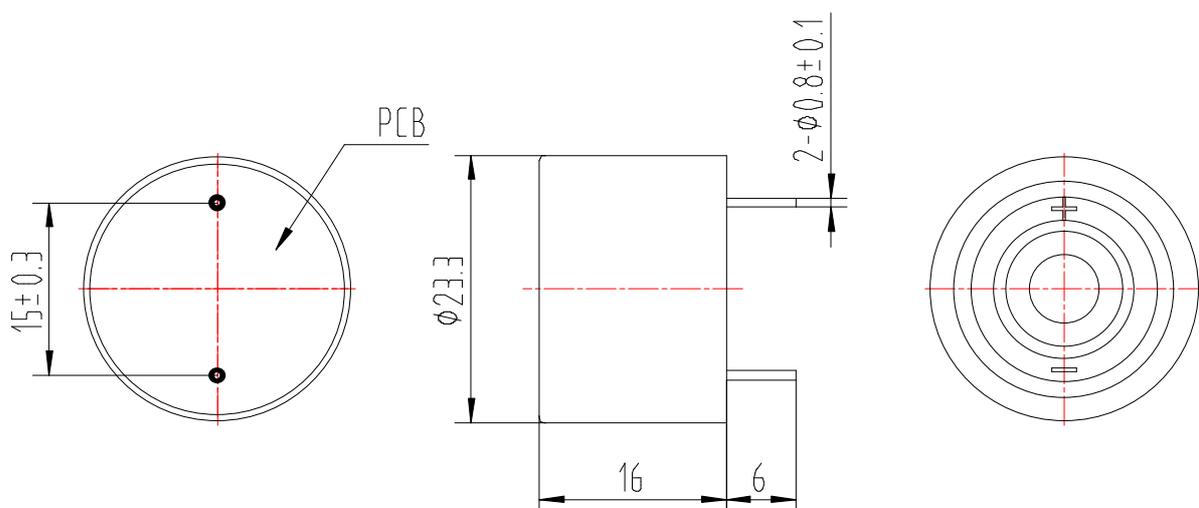


1	Rated Voltage	12 VDC
2	Operating Voltage	5- 15VDC
3	Rated Current	Max.30mA, at 12VDC
4	Sound Output at 10cm	Min.95dB, at 12VDC
5	Resonant Frequency	3100±500 Hz
6	Tone	Continuous
7	Operating Temperature	-20 - +70°C
8	Storage Temperature	-30 - +80°C
9	RoHS	Yes
10	Weight	Approx 5g

3. Dimensions

Unit: mm

Tolerance: ±0.5mm Except Specified



*Housing Material: Black PBT

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 regulated to measure.

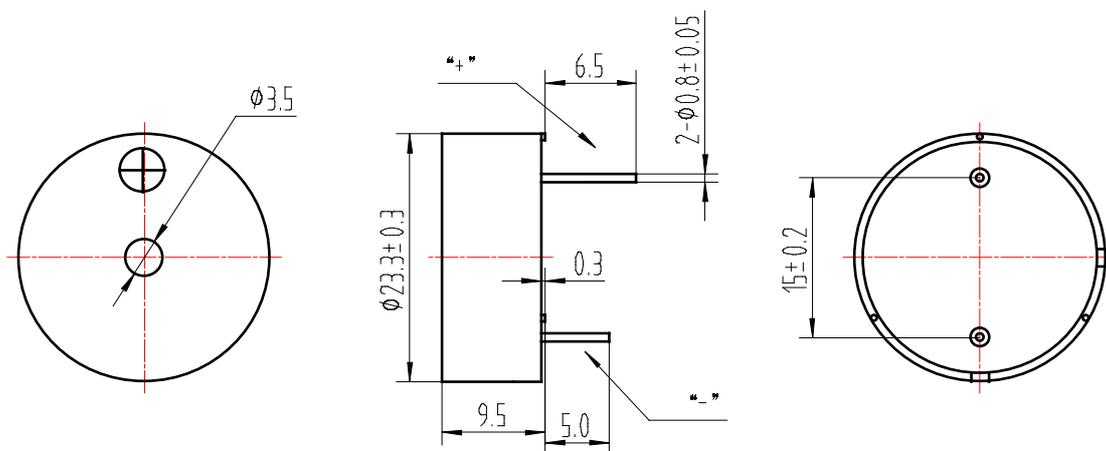


1	Rated Voltage	12 VDC
2	Operating Voltage	6 – 15VDC
3	Rated Current	Max.20mA, at 12VDC
4	Sound Output at 10cm	Min.95dB, at 12VDC
5	Resonant Frequency	3500± 500 Hz
6	Tone	Continuous
7	Operating Temperature	-20 - +70°C
8	Storage Temperature	-30 - +80°C
9	RoHS	Yes
10	Weight	Approx 3g

3. Dimensions

Unit: mm

Tolerance± 0.5mm Except Specified



*Housing Material: Black PPO

Piezoelectric Ceramic Buzzer
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2. Technical Parameter Measuring condition

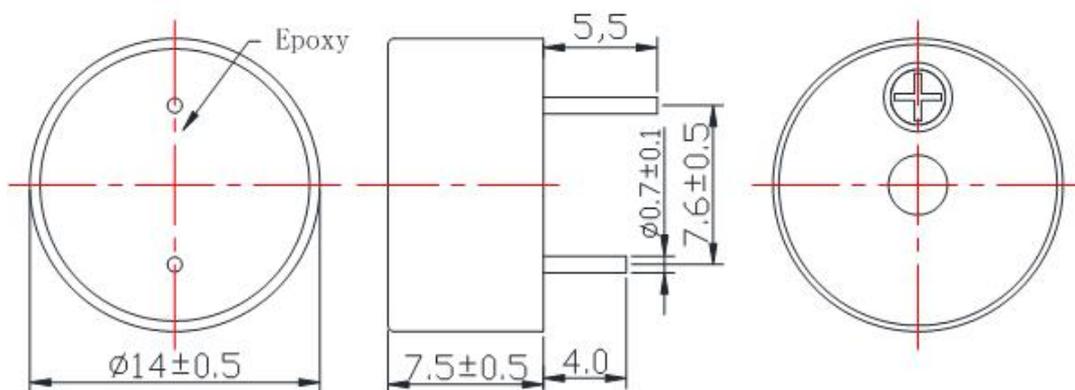
Part shall be measured under a condition (Temperature: 5 ~ 35°C, Humidity: 45% ~ 85%R.H., Atmospheric pressure: 860 ~ 1060hPa) unless the standard condition (Temperature: 25±3 °C, Humidity: 60±10%R.H. Atmospheric pressure: 860 ~ 1060hPa) is regulated to measure.

1	Rated Voltage	5VDC
2	Operating Voltage	3 – 18 VDC
3	Rated Current	Max.15mA, at 5VDC
4	Sound Output at 10cm	Min.80dB, at 5VDC
5	Resonant Frequency	4000± 200 Hz
6	Tone	Continuous
7	Operating Temperature	-20 - +70°C
8	Storage Temperature	-30 - +80°C
9	RoHS	Yes
10	Weight	Approx 1 g

3. Dimensions

Unit: mm

Tolerance: ± 0.5mm Except Specified



*Housing Material: PPO

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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.

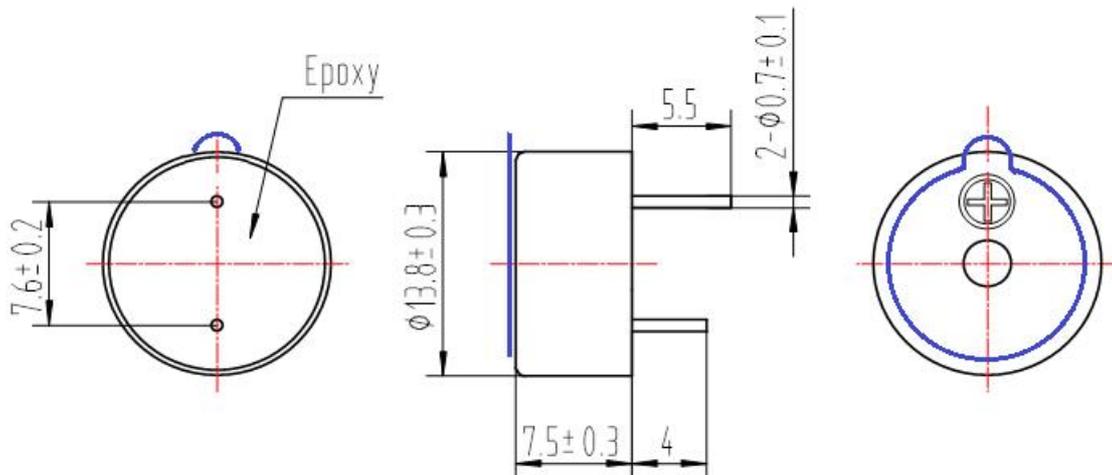


1	Rated Voltage	12VDC
2	Operating Voltage	5 – 15VDC
3	Rated Current	Max.15mA, at 12VDC
4	Sound Output at 10cm	Min.80dB, at 12VDC
5	Resonant Frequency	4000±500 Hz
6	Tone	Continuous
7	Operating Temperature	-20 - +70°C
8	Storage Temperature	-30 - +80°C
9	RoHS	Yes
10	Weight	Approx 1g

3. Dimensions

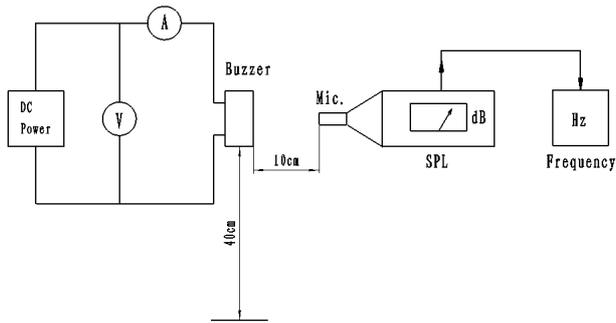
Unit: mm

Tolerance: ±0.5mm Except Specified

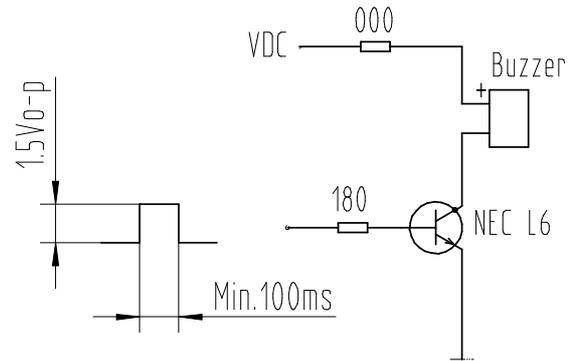

 *Housing Material: Black PBT **Longer pin indicates a positive pole, shorter pin - a negative pole. Do not confuse!**

Electrical And Acoustical Measuring Condition

a) Recommended Setting



b) Recommended Test Circuit



Recommended wave soldering temperature

