

Datasheet

Item no. 1566915

V1_04122018_01_en



Piezo Buzzer 90 dB

Noise emission:	90 dB
Resonance:	3.4 kHz
Dia.:	24 mm
Height:	9.5 mm
Voltage:	9 V
Connection:	Open end cable
RoHS-compliant:	Yes
Type:	Round
Fastening method:	Screw-fit

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SPECIFICATION FOR PIEZOELECTRIC BUZZER

1. Scope

This specification is applied to the piezoelectric buzzer, which are used for alarm systems.

2. Item No.: LF-PB24W34A

3. Ratings

- * Operating Temperature Range: - 20 °C ~ + 105°C
- * Storage Temperature Range: - 40 °C ~ + 105°C
- * Operating Voltage: 3.0 to 30 VDC
- * Case material: PC UL94HB

4. Outline Drawing and Dimensions

- * Appearance: No visible damage and dirt
- * Dimensions: as per Fig. 1

5. Electrical Requirements

	Items	Specifications	Test Conditions
5-1.	Sound Pressure Level	90 dB min. Continuous Tone	Input Voltage: 9.0V DC Distance: 10 cm *As per Fig. 2
5-2.	Oscillating Frequency	3.4 ± 0.5KHz	
5-3	Current Consumption	7.0mA max.	At 9.0V DC

- * Electrical Requirements should be specified at room temperature and humidity.
(Ref. Temperature: 25 ± 3°C, Humidity: 60 ± 10% RH)

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6. Physical Characteristics

	Test Item	Test Conditions	Performance Requirements
6-1.	Vibration	Buzzer shall be measured after being applied vibration of amplitude of 1.5 mm with 10 to 55 Hz band of vibration frequency to each three mutually perpendicular directions for 2 hours.	The measured values shall meet Table 1.

7. Environmental Characteristics

	Test Items	Test Conditions	Performance Requirements
7-1.	High Temperature	After being placed in a chamber with $+85 \pm 2^\circ\text{C}$ for 240 hours and then being placed in natural condition for 4 hours, buzzer shall be measured.	The measured values shall meet Table 1.
7-2.	Low Temperature	After being placed in a chamber with $-40 \pm 2^\circ\text{C}$ for 240 hours and then being placed in natural condition for 4 hours, buzzer shall be measured.	
7-3.	Humidity	After being placed in a chamber with 90 to 95% R.H. at $+40 \pm 2^\circ\text{C}$ for 240 hours and then being placed in natural condition for 4 hours, buzzer shall be measured.	
7-4.	Temperature Cycle	After being placed in a chamber at $-40 \pm 2^\circ\text{C}$ for 30 minutes, buzzer shall be placed at room temperature ($+20^\circ\text{C}$). After 15 minutes at this temperature, buzzer shall be placed in a chamber at $+85 \pm 2^\circ\text{C}$. After 30 minutes at this temperature, buzzer shall be returned to room temperature ($+20^\circ\text{C}$) for 15 minutes. After 5 above cycles, buzzer shall measure after being placed in natural condition for hours.	

Table 1

Items	Performance Requirements
Sound Pressure Level	Initial Value ± 10 dB

8. Others

- 8-1. This specification mentions the quality of the component as a single unit. Please insure the component is thoroughly evaluated in your application circuit.
- 8-2. Please do not use this component in any application that deviates from its intended use as noted within the specification. It may cause any mishaps.

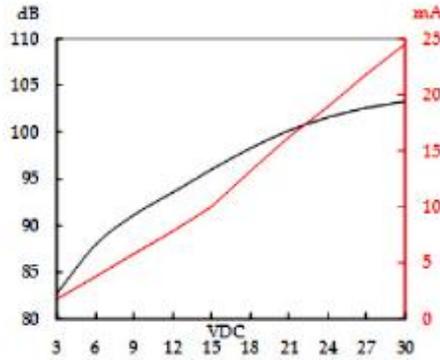
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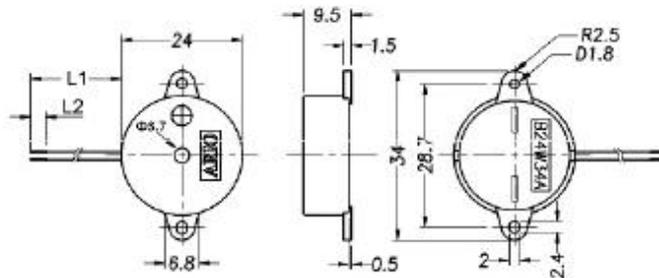
9. Sound pressure level and current consumption vs. DC voltage:



10. Remark

At the same spec of material changed without notice, due to the environmental protection, material sources and process improvement norms etc.

Dimensions Unit: mm ± 0.2



Lead Wire: UL1095 AWG28 L1:85±5mm L2:3±1mm

Fig. 1

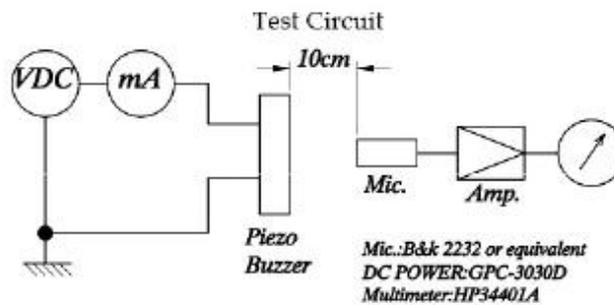


Fig. 2