SPECIFICATION FOR PIEZOELECTRIC BUZZER

Scope

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

2. Item No.: LF-PB42W29A

Ratings

* Operating Temperature Range: $-20 \,^{\circ}\text{C} \sim +105 \,^{\circ}\text{C/9VDC;96hrs}$ * Storage Temperature Range: $-40 \,^{\circ}\text{C} \sim +105 \,^{\circ}\text{C}$ * Operating Voltage: $-40 \,^{\circ}\text{C} \sim +105 \,^{\circ}\text{C}$ * Case material: PC UL94HB

4. Outline Drawing and Dimensions

* Appearance: No visible damage and dirt

* Dimensions: as per Fig. 1

Electrical Requirements

	Items	Specifications	Test Conditions
5-1.	Sound Pressure Level	102 dB min. Continuous Tone	Input Voltage: 9.0V DC Distance: 10 cm *As per Fig. 2
5-2.	Oscillating Frequency	$2.9 \pm 0.5 \text{KHz}$	10 100
5-3	Current Consumption	9.0mA max.	At 9.0V DC

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

6. Physical Characteristics

8	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

7. Environmental Characteristics

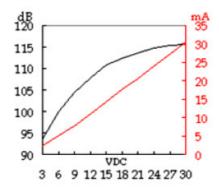
	Test Items	Test Conditions	Performance Requirements
7-1.	High Temperature	After being placed in a chamber with +85 ± 2°C for 240 hours and then being placed in natural condition for 4 hours, buzzer shall be measured.	
7-2.	Low Temperature	After being placed in a chamber with -40 ± 2°C for 240 hours and 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 \pm 40 \pm 2°C for 240 hours and then being placed in natural condition for 4 hours, buzzer shall be measured.	
7-4.	After being placed in a chamber at -40 ± 2°C for 30 minutes, buzzer shall be placed at room temperature (+20°C). After 15 minutes at this temperature, buzzer shall be placed in a chamber at +85 ± 2°C After 30 minutes at this temperature buzzer shall be returned to room temperature (+20°C) for 15 minutes After 5 above cycles, buzzer shall measure after being placed in natura condition for hours.		

Table 1

Items	Performance Requirements
Sound Pressure Level	Initial Value ± 10 dB

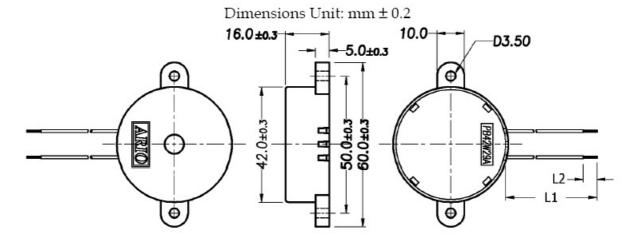
8. Others

- 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.
- 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.



Lead Wire: UL 1007 AWG26 L1:125±5mm L2:5±2mm Fig. 1

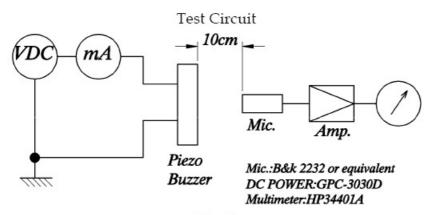


Fig. 2