Specification of Piezoelectric Buzzer

Scope

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

W.100Y.COM.TW WW.100Y.COM.TW 2. Item No.: LF-PB42W29A

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

WWW.100Y.COM.TW WWW.100Y.COM.TW 3. Ratings WWW.100Y

- 20 °C ~ + 85°C Operating Temperature Range: WWW.100Y.Q - 40 °C ~ + 85°C Storage Temperature Range: WWW.100Y.COM.TW Operating Voltage: 3.0 to 30 VDC Case material: PC UL94HB WWW.1003

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	102 dB min. Continuous Tone	Input Voltage: 9.0V DC Distance: 10 cm *As per Fig. 2
5-2.	Oscillating Frequency	2.9 ± 0.5KHz	OM.IV WWW.IV
5-3	Current Consumption	9.0mA max.	At 9.0V DC

Physical Characteristics 6.

6.	Physical Cha	racteristics COM.TW	
	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

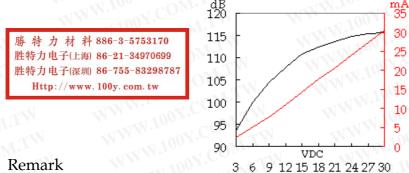
Mr.	Test Items	Test Conditions	Performance Requirement
7-1.	High Temperature	After being placed in a chamber with +85 ± 3°C for 48 hours and then being placed in natural condition for 4 hours without applying power, buzzer shall be measured.	
7-2.	Low Temperature	After being placed in a chamber with -40 ± 3°C for 48 hours and then being placed in natural condition for 4 hours without applying power, buzzer shall be measured.	100Y.COM.TW 1.100Y.COM.TW W.100Y.COM.TW
7-3.	Humidity	After being placed in a chamber with 90 to 95% R.H. at $+40 \pm 3$ °C for 48 hours and then being placed in natural condition for 4 hours without applying power, buzzer shall be measured.	The measured values shall meet Table 1.
7-4.	Temperature Cycle	After being placed in a chamber at -20 ± 3°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 ± 3°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 natural condition for 4 hours without applying power.	WWW.100Y.COM.TW

Table 1

Items	Performance Requirement
Sound Pressure Level	Initial Value ± 10 dB

8. Others

- This specification mentions the quality of the component as a single unit. 8-1. 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.
- Sound pressure level and current consumption vs. DC voltage:



10. Remark

因環保規範、材料取得、製程精進等因素,在規格特性未變更下,本公司得就材料逕行調整,毋須通知客戶。 At the same spec of material changed without notice, due to the environmental protection, material sources and process improvement norms etc.

Dimensions Unit: mm ± 0.5

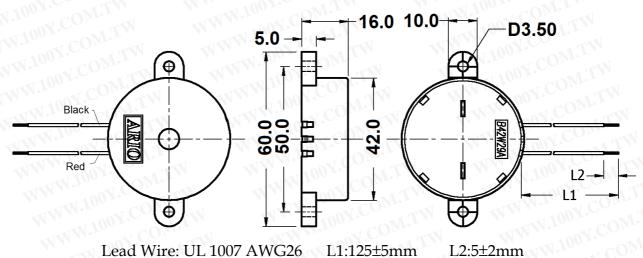


Fig. 1

Test Circuit

