

FEATURES

- Continuous piezo buzzer
- Sound level of 76 dB
- Resonant frequency of 2.8 kHz
- Internal drive
- Panel mounting
- Supply current of 4 mA
- Diameter of 32 mm
- Length of 44 mm
- Height of 13.5 mm
- Minimum operating temperature of -30°C
- Maximum operating temperature of +85°C
- Minimum supply voltage of 3 V (DC)
- Maximum supply voltage of 12 V (DC)
- Minimum frequency of 3 kHz
- Maximum frequency of 4 kHz

RS PRO 85dB, Panel Mount Continuous Internal Piezo Buzzer

RS Stock No.: 535-8275



RS PRO Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Piezo Buzzer Components



Product Description

Wire up this piezo buzzer from RS PRO to generate sounds from your electronic equipment. Safe and simple to install, it emits a continuous tone of up to 85 dB, with a resonant frequency of 2.8 kHz. In comparison to magnetic buzzers, this piezo buzzer releases sound with a much greater pressure level. It features internal circuitry and you can mount it directly onto a printed circuit board. It includes flying leads, allowing for quick connections, and its ABS (acrylonitrile butadiene styrene) outer construction makes it very resistant to shock and chemicals. Finally, you can use it with a very low current of 4 mA.

General Specifications

Mounting Type	Panel Mount
Sound Level	85dB
Drive Type	Internal
Tone Type Continuous	
Colour	Black
Housing Material	ABS
Application	Alarms or warning systems, communications equipment and electronic cash registers.

Electrical Specifications

Minimum Supply Voltage	3Vdc
Maximum Supply Voltage	12Vdc
Maximum Frequency	4kHz
Minimum Frequency	3000Hz
Supply Current	4mA



Mechanical Specifications

Diameter	32mm
Length	44mm
Depth	13.5mm
Height	13.5mm
Dimensions	32 (Dia.) x 13.5mm
Weight	8g
Lead Wire	UL1007 LF 24AWG
Sound Level Distance	30cm

Operation Environment Specifications

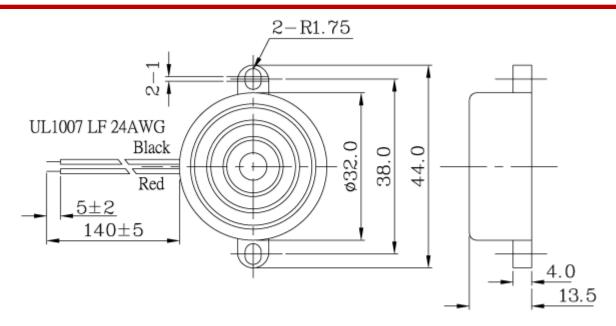
Minimum Operating Temperature	-30°C
Maximum Operating Temperature	85°C

Approvals

Compliance/Certifications	RoHS	



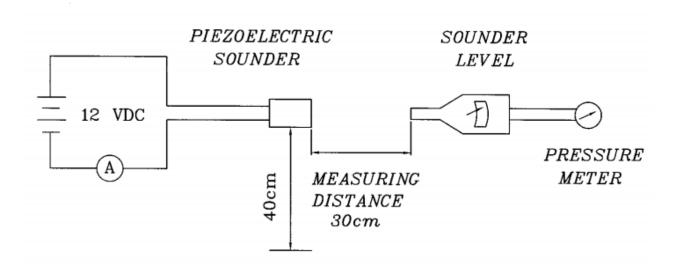




Tol: ± 0.5 Unit: mm

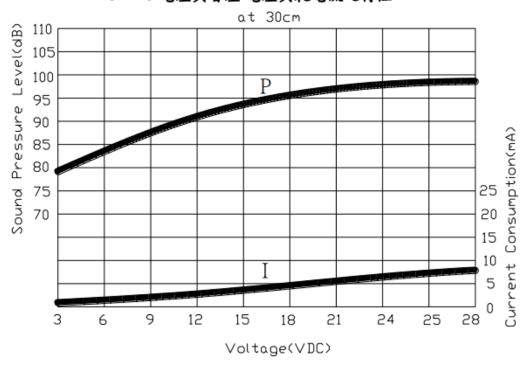
D. MEASURING METHOD 测量方法

S.P.L. Measuring Circuit 音壓測試接線圖





E.VOLTAGE:SOUND PRESSURE LEVEL / VOLTAGE: CURRENT CONSUMPTION CHARACTERISTICS 電壓與音壓/電壓與耗電流之特性



F. MECHANICAL CHARACTERISTICS 機械特性

No.	Item	Test Condition	Evaluation standard
1	Solderability 焊錫附著性 (Connector excepted) (端子類不適用此 項)	stripped wires of lead wires are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5℃ for 3±0.5 seconds. 裸線部份浸入松香溶液 5 秒後,再浸入+270±5℃溶融焊鍋槽 3±0.5	90% min. stripped wires shall be wet with solder.(Except the edge of terminal) 浸入裸線部份附著焊鍋90%以上.(末端斷面不算)
2	Lead Wire Pull Strength 線材拉力	(No damage and cutting off. 線材不鬆動,不脫落.
3	Vibration 振動試驗	振動週波數 10~55HZ、全振幅 1.5mm 於 X.Y.Z 3 個方向,各 2 小時.	frequency/ current consumption should be in ±10% compared with initial ones .The SPL
4	Drop test 落下测试	The west calls about he drawned from a bejobt of 75 am auto a	should be in ±10dB compared with initial one. 谐振頻率與消耗電流變化 量須在±10%內. 輸出音壓 變化量須在±10dB內.



G. ENVIRONMENT TEST 環境測試

No	Item	Test Condition	Evaluation standard
1	High temp. test 高溫測試	After being placed in a chamber at +95℃ for 240 hours 置於+95℃環境中 240 小時	
2	Low temp. test 低溫測試	After being placed in a chamber with –40℃ for 240 hours 置於-40℃ 環境中 240 小時	
3	Humidity test 相對濕度測試	After being placed in a chamber at +40℃ and 90±5% relative humidity for 240 hours 置於+40℃, 相對溫度 90±5% 環境中 240 小時	Being placed for 4 hours at +25°C, buzzer shall be
4	Temp. cycle test 溫度循環試驗	Consist of:: 單體承受溫度循環測試 5 次,其循環內容如圖示: +95℃ -40℃	

H. RELIABILITY TEST 位賴性測試

No.	Item	Test condition	Evaluation standard
1	Operating	1.Continuous life test高溫壽命測試(連續) 48 hours continuous operation at +70℃ with rated voltage applied. 在+70℃境下,以額定電壓連續操作48小時. 2.Intermittent life test 室溫壽命測試(問歇) A duty cycle of 1 minute on, 1 minutes off, a minimum of 5000 times	Being placed for 4 hours at +25℃, buzzer shall be measured. The value of oscillation frequency/ curren consumption should be in±10% compared with initia ones .The SPL should be
		在室溫下(+25±2℃),以額定電壓操作,通電1分鐘/斷電1分鐘,測試 5000次循環.	in±10dB compared with initial one. 經測試後, 靜置於+25℃ (室溫) 環境中4小時後,諧振頻 率與消耗電流變化量須在±

TEST CONDITION.

Standard Test Condition: a) Temperature: +5 ~ +35℃ b) Humidity: 45-85% c) Pressure: 860-1060mpa - 般測試條件: a) 溫度: +5 ~ +35℃ b) 温度: 45-85% c) 氣壓: 860-1060mpa

Judgement Test Condition: a) Temperature: +25 ± 2°C b) Humidity: 60-70% c) Pressure: 860-1060mpa.

爭議時測試條件: a) 溫度:+25±2℃ b) 濕度:60-70% c) 氣壓:860-1060mpa