

## FEATURES

- Continuous piezo buzzer
- Sound level of 86 dB
- Internal drive
- Panel mounting
- Dimensions of 30 mm x 10 mm
- Supply current of 11 mA
- Minimum operating temperature of -30°C
- Maximum operating temperature of +85°C
- Minimum supply voltage of 3 V (DC)
- Maximum supply voltage of 30 V (DC)
- Frequency range of 3000 Hz to 4 kHz

## RS PRO 85dB, Panel Mount Continuous Internal Piezo Buzzer

RS Stock No.: 754-1993



RS 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.

## Product Description

Operating on a low current of just 11 mA, this handy RS PRO piezo buzzer offers a safe and simple solution to generate sounds from electronic equipment. It can be easily wired to emit a continuous tone of up to 86 db.

The buzzer features internal circuitry and is directly mountable onto a printed circuit board (PCB). Its flying leads enable quick connections, while its ABS (acrylonitrile butadiene styrene) construction makes it shockproof and resistant to chemicals. It generates sounds with a much greater pressure level when compared to magnetic buzzers.

## General Specifications

<b>Mounting Type</b>	Panel Mount
<b>Sound Level</b>	85dB
<b>Drive Type</b>	Internal
<b>Tone Type</b>	Continuous
<b>Colour</b>	Black
<b>Housing Material</b>	PBT+15% glass
<b>Application</b>	Alarms or warning systems, communications equipment and electronic cash registers.

## Electrical Specifications

<b>Minimum Supply Voltage</b>	3Vdc
<b>Maximum Supply Voltage</b>	30Vdc
<b>Maximum Frequency</b>	4kHz
<b>Minimum Frequency</b>	3000Hz
<b>Supply Current</b>	11mA

## Mechanical Specifications

Diameter	30mm
Height	10mm
Dimensions	30mm (Dia.) x 10mm
Weight	6g

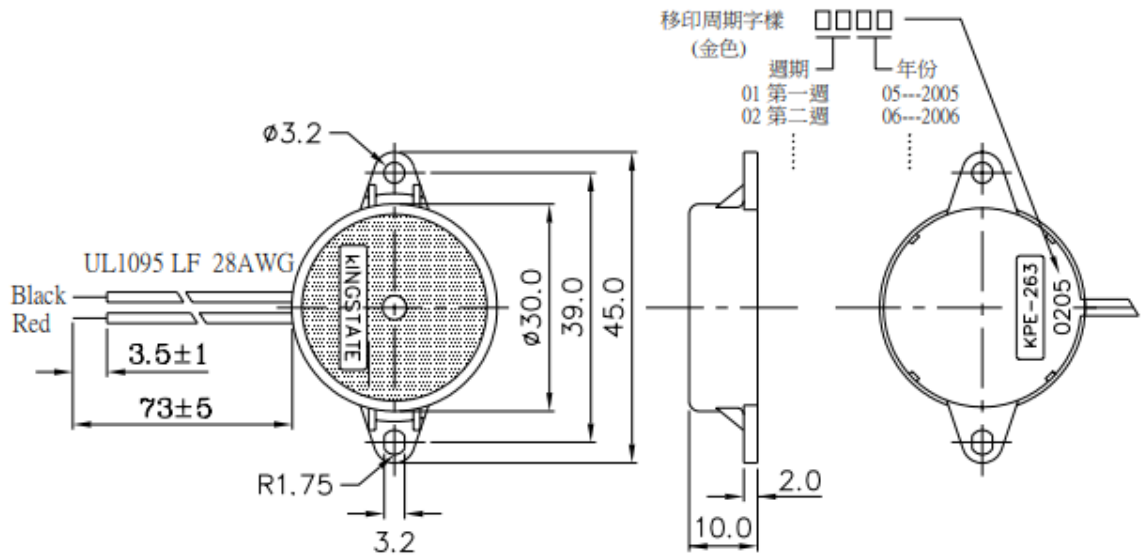
## Operation Environment Specifications

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

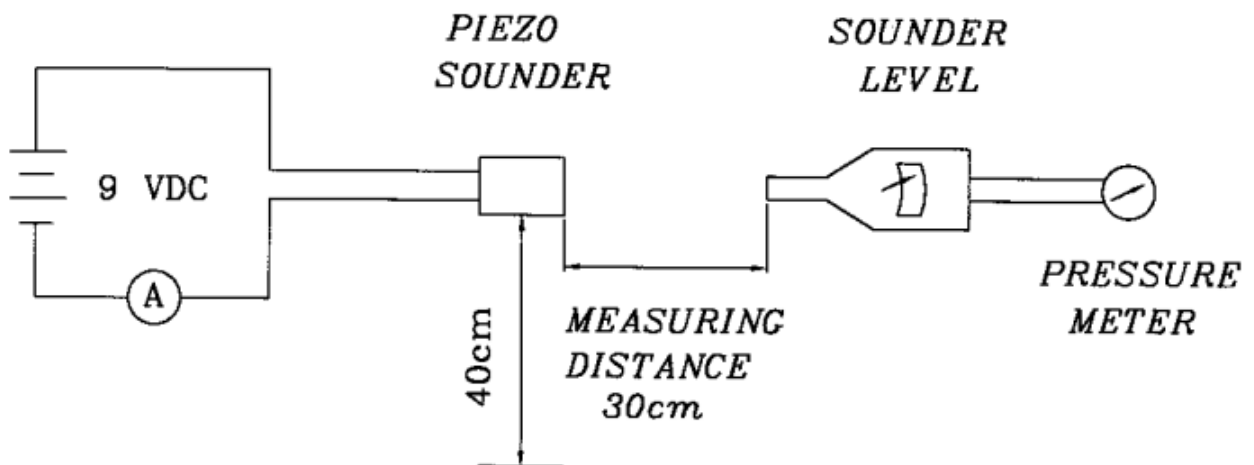
## Approvals

Compliance/Certifications	ANSI/ESD S20.20:2014, BS EN 61340-5-1:2007
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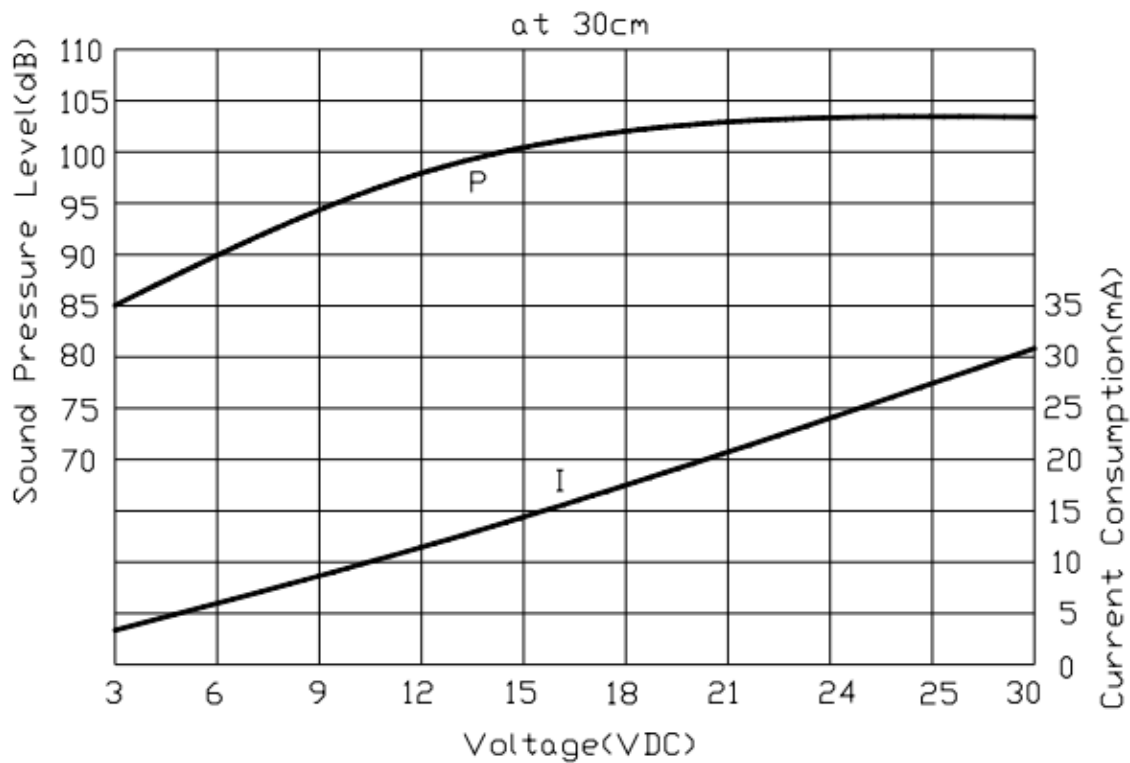




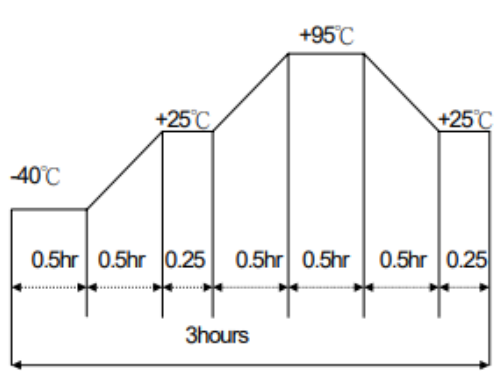
**Tol : ± 0.5**  
**Unit : mm**



Mic : RION S.P.L meter UC30 or equivalent  
Mic : RION 噪音計 UC30 或同等品



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°C for 3±0.5 seconds. 裸線部份浸入松香溶液5秒後,再浸入+270±5°C溶融焊錫槽3±0.5秒	90% min. stripped wires shall be wet with solder.(Except the edge of terminal) 浸入裸線部份附著焊錫 90%以上(末端斷面不算)
2	Lead Wire Pull Strength 線材拉力	The pull force shall be applied to double lead wire : Horizontal 3.0N(0.306kg) for 30 seconds. Vertical 2.0N(0.204kg) for 30 seconds. 雙線材水平方向施以 3.0N(0.306kg)的力量,垂直方向施以 2.0N(0.204kg)的力量,各30秒	No damage and cutting off. 線材不鬆動,不脫落.
3	Vibration 振動試驗	Buzzer shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours. 振動週波數 10 55HZ·全振幅 1.5mm 於 X,Y,Z 3 個方向,各2小時	The value of oscillation frequency/ current consumption should be in ±10% compared with initial ones .The SPL should be in ±10dB compared with initial one.
4	Drop test 落下測試	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes (X,Y,Z). (a total of 9 times). 單體從 75 公分高處, X,Y,Z 3 個方向,各3 回,落於 40mm 厚木板上.	諧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.

No.	Item	Test Condition	Evaluation standard
1	High temp. test 高溫測試	After being placed in a chamber at +95°C for 240 hours 置於+95°C環境中 240 小時	Being placed for 4 hours at +25°C, buzzer shall be measured. The value of oscillation frequency/ current consumption should be in $\pm 10\%$ compared with initial ones. The SPL should be in $\pm 10\text{dB}$ compared with initial one. 經測試後，靜置於+25°C（室溫）環境中 4 小時後，諧振頻率與消耗電流變化量須在 $\pm 10\%$ 內。輸出音壓變化量須在 $\pm 10\text{dB}$ 內。
2	Low temp. test 低溫測試	After being placed in a chamber with -40°C for 240 hours 置於-40°C環境中 240 小時	
3	Humidity test 相對濕度測試	After being placed in a chamber at +40°C and 90 $\pm$ 5% relative humidity for 240 hours 置於+40°C，相對濕度 90 $\pm$ 5% 環境中 240 小時	
4	Temp. cycle test 溫度循環試驗	The part shall be subjected to 5 cycles. One cycle shall be consist of: 單體承受溫度循環測試 5 次，其循環內容如圖示 	

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

### TEST CONDITION.

Standard Test Condition 一般測試條件	:	a) Temperature : +5 ~ +35°C	b) Humidity : 45-85%	c) Pressure : 860-1060mbar
Judgement Test Condition 爭議時測試條件	:	a) Temperature : +25 $\pm$ 2°C	b) Humidity : 60-70%	c) Pressure : 860-1060mbar