## Features

- Electroacoustic parts
- 
- Used to sound warning sounds
- Prompt sound or feedback sound
- Used in various electronic products

# RS PRO Piezo Buzzer Components

RS Stock No.: 5358348


RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

SCOPE

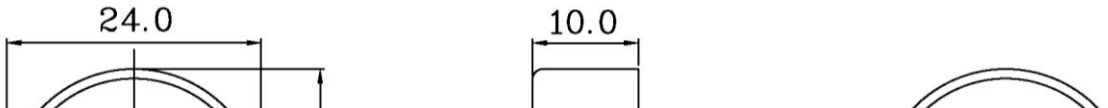
This specification applies piezo audio indicator, 535-8348

## SPECIFICATION

| No. | Item | Unit | Specification | Condition |
|---|---|---|---|---|
| 1 | Resonant frequency | KHz | 3.2 ± 0.5 | |
| 2 | Operating Volt. range | VDC | 3 ~ 20 | |
| 3 | Current consumption | mA | MAX 10 | at 12VDC |
| 4 | Sound pressure level | dB | MIN 75 | at 30cm/12VDC |
| 5 | Rated Voltage | VDC | 12 | |
| 6 | Tone | | Continuous | |
| 7 | Operating temp. | ℃ | -30 ~ +115 | |
| 8 | Storage temp. | ℃ | -40 ~ +125 | |
| 9 | Dimension | mm | L25.0 x W24.0 x H10.0 | See appearance drawing |
| 10 | Weight (MAX) | gram | 3.7 | |
| 11 | Material | | PC 10% GLAS（BLACK） | |
| 12 | Terminal | | Pin type<br>(Plating Au) | See appearance drawing |
| 13 | Environmental Protection Regulation | | RoHS2.0 | |

## APPEARANCE DRAWING

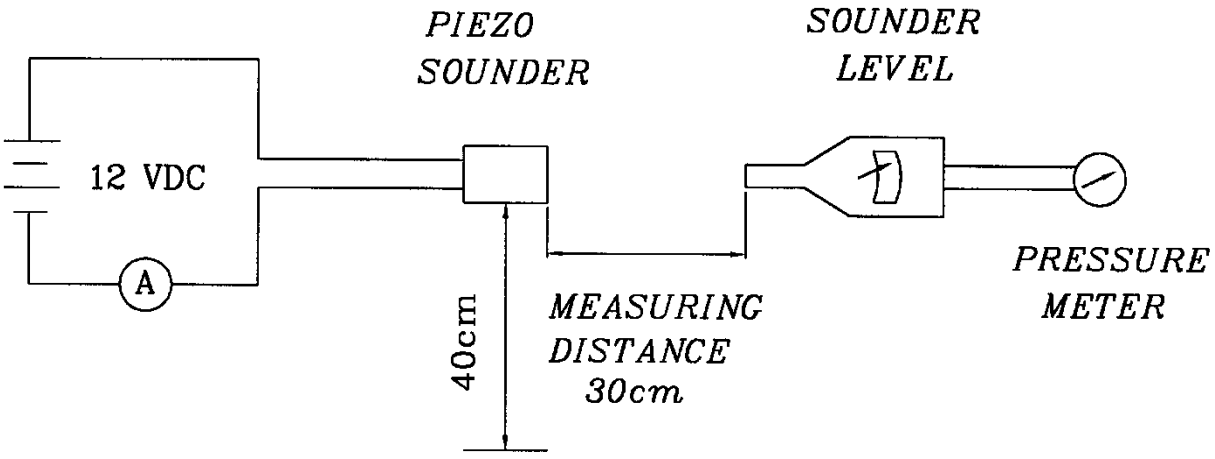




Tol : ± 0.5
Unit : mm

## MEASUREMENT METHOD

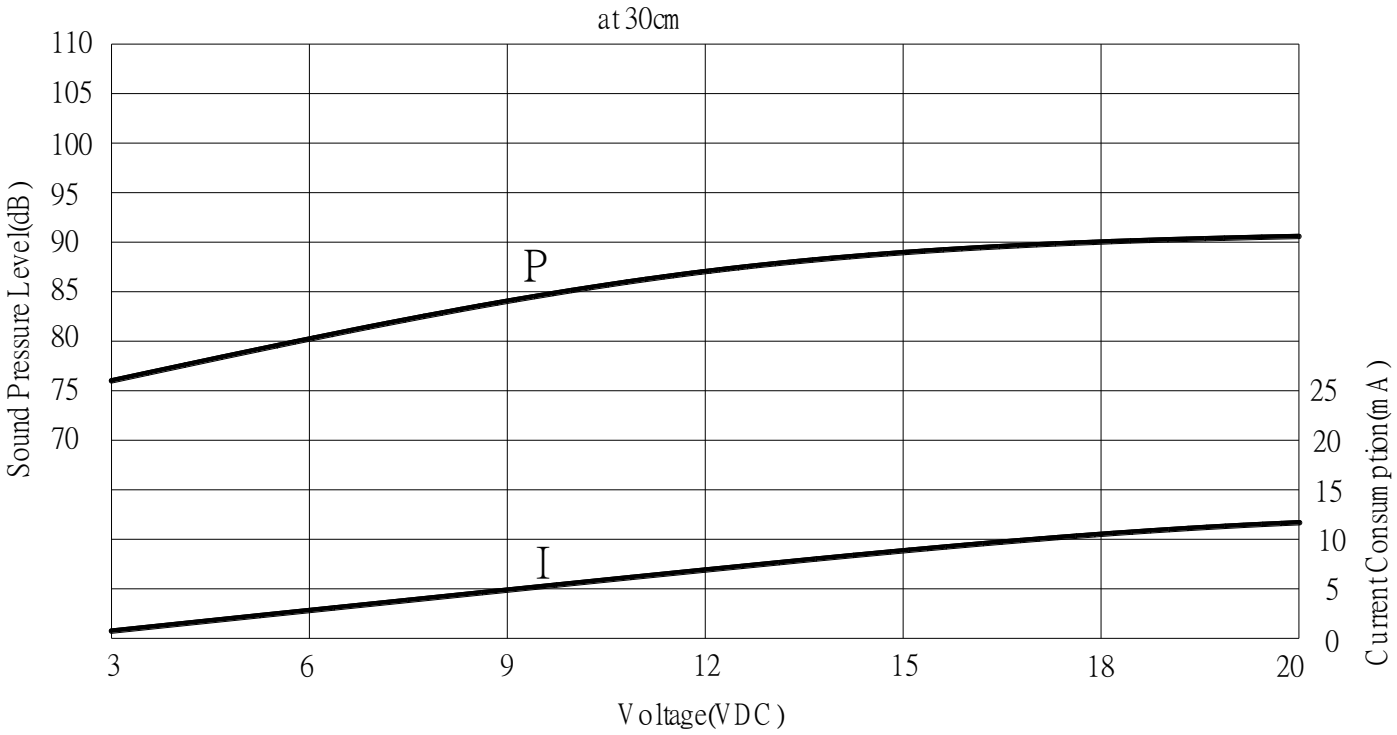
S.P.L. Measuring Circuit




Mic : RION S.P.L meter UC30 or equivalent

## VOLTAGE

## VOLTAGE: SOUND PRESSURE LEVEL / VOLTAGE: CURRENT CONSUMPTION

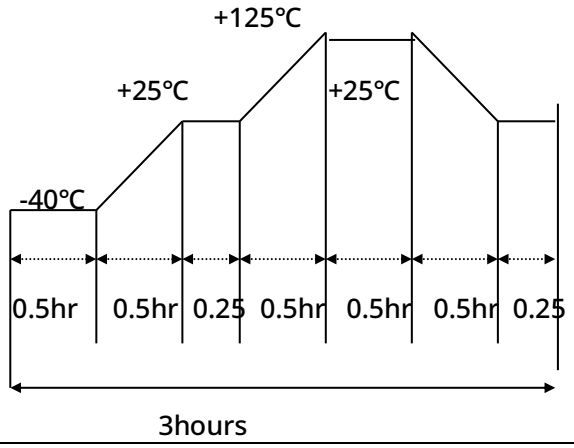



## MECHANICAL CHARACTERISTICS

| No | Item | Test Condition | Evaluation standard |
|---|---|---|---|
| 1 | Solder ability | Stripped wires of lead wires are immersed in rosin for 5 seconds and then immersed in solder bath of +230±5℃ for 3±0.5 seconds. | 90% min. stripped wires shall be wet with solder.(Except the edge of terminal) |
| 2 | Soldering Heat Resistance | Stripped wires are immersed up to 1.5mm from insulation in solder bath of +300±5℃ for 3±0.5 seconds or +260±5℃ for 10±1 seconds, and then sounder shall be measured after being placed in natural condition for 4 hours. | No interference in operation. |
| 3 | Terminal Strength Pulling | The force 10 seconds of 300g is applied to each terminal in axial direction. | No damage and cutting off. |
| 4 | Vibration | 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 perpendicular directions for 2 hours. | 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. |
| 5 | Drop test | 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). | |
| 6 | Inside lead wire pull test | The force 10 seconds of 400g is applied to each terminal in axial direction. | No damage and cutting off. |
| 7 | Strength Pulling | The force 1 minutes of 5kg at room temp.( +25±5℃) is applied to A,B case | No damage and cutting off |

## ENVIRONMENT TEST

| No. | Item | Test Condition | Evaluation standard |
|---|---|---|---|
| 1 | High temp. test | After being placed in a chamber at +125℃ for 240 hours | Being placed for 4 hours at +25℃, buzzer shall be measured. The value of |
| 2 | Low temp. test | After being placed in a chamber at –40℃ for 240 hours | |
| 3 | Humidity test | After being placed in a chamber at +40℃ and 90±5% relative humidity for 240 hours | |

| | | | |
|---|---|---|---|
| 4 | Temp. cycle test | The part shall be subjected to 5 cycles. One cycle shall be consist of:<br>  <br> | oscillation frequency/ current consumption should be in±10% compared with initial ones .The SPL should be in±10dB compared with initial one. |

## RELIABILITY TEST

| No. | Item | Test condition | Evaluation |
|---|---|---|---|
| 1 | Operating life test | 1.Continuous life test<br>2 hours continuous operation at +105℃ with 15V applied.<br>2.Intermittent life test<br>A duty cycle of 1 minute on, 5 minutes off, a minimum of 10000 times at room temp.( +25 ±2℃)and maximum rated voltage applied. | Being placed for 4 hours at +25℃, buzzer shall be measured. 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. |

TEST CONDITION.

Standard Test Condition：a) Temperature：+5 ~ +35℃ b) Humidity：45-85% c) Pressure：860-1060mbar

Judgement Test Condition：a) Temperature：+25 ± 2℃ b) Humidity：60-70% c)Pressure:860-1060mbar