



Part No: CSQ-601BP

Description: magnetic buzzer

Date: 1/26/2006

Unit: mm

Page No: 1 of 5

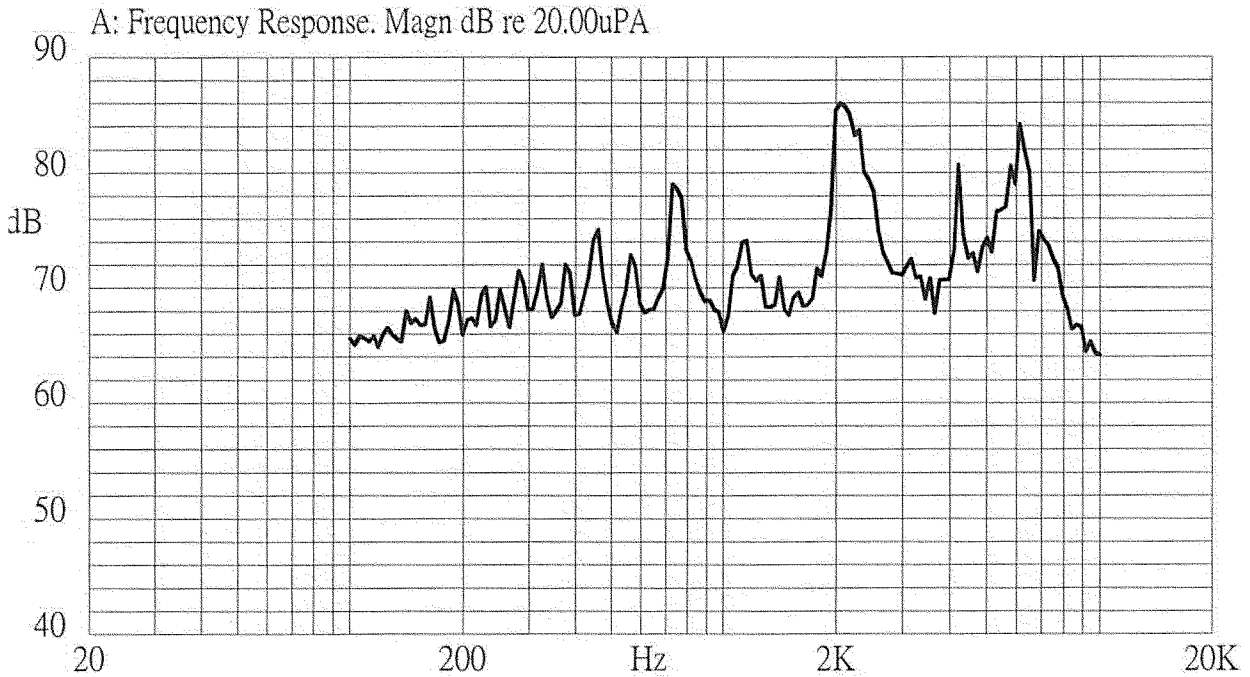
SCOPE

This specification applies to magnetic buzzer, CSQ-601BP

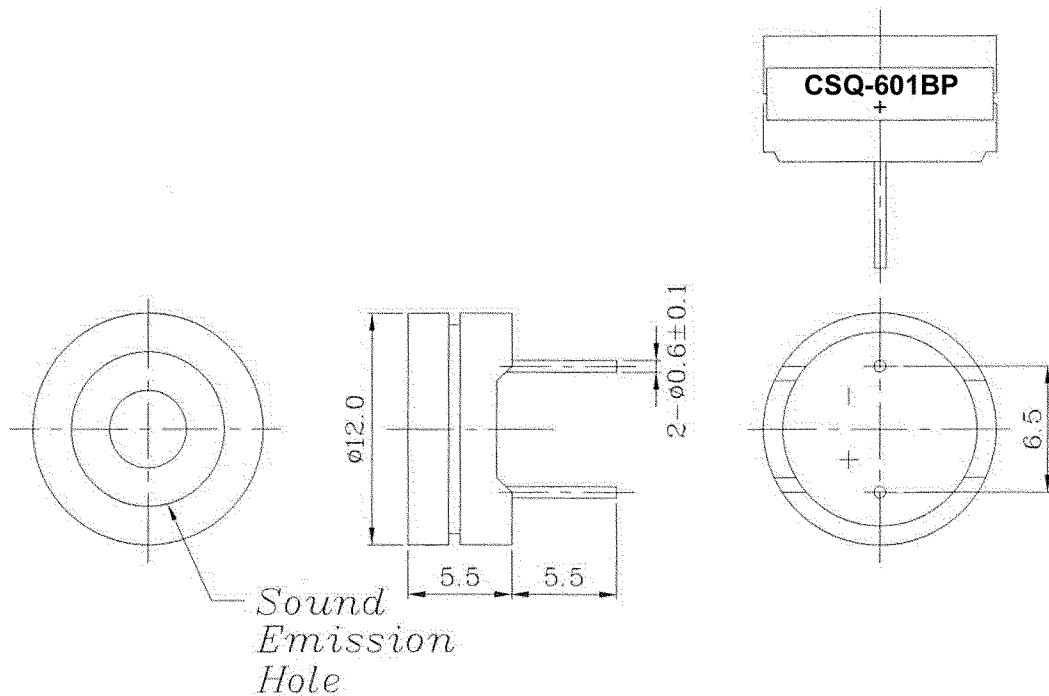
SPECIFICATION

| No. | Item | Unit | Specification | Condition |
|-----|-------------------------------------|--------------------|---------------------------|--|
| 1 | Rated Voltage | Vo-p | 1.5 | |
| 2 | Operating Volt. | Vo-p | 1.0~2.0 | |
| 3 | Mean Current | mA | Max. 35 | Applying rated voltage, 2048Hz square wave, 1/2duty |
| 4 | Coil Resistance | Ω | 16.0 \pm 2.4 | |
| 5 | Sound Output | dB(A) | Min. 70 (Typical 76) | Distance at 10cm(A-weight free air). Applying rated voltage 2048Hz, square wave, 1/2duty |
| 6 | Rated Frequency | Hz | 2048 | |
| 7 | Operating Temp. | $^{\circ}\text{C}$ | -20 ~ +60 | |
| 8 | Storage Temp. | $^{\circ}\text{C}$ | -30 ~ +70 | |
| 9 | Dimension | mm | ϕ 12.0 \times H5.5 | See attached drawing. |
| 10 | Weight | gram | 1.2 | |
| 11 | Material | | PPO | |
| 12 | Terminal | | Pin type (Plating Au) | See attached drawing. |
| 13 | Environmental Protection Regulation | | RoHS | |

TYPICAL FREQUENCY RESPONSE CURVE



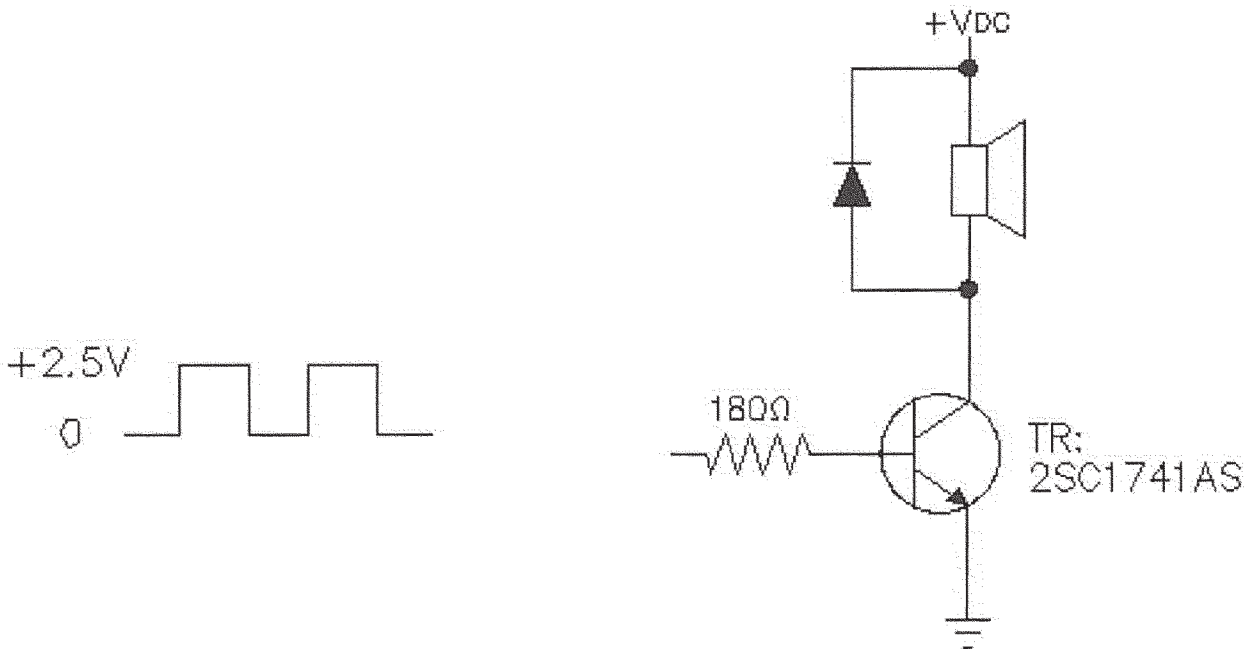
APPEARANCE DRAWING



Tol: ± 0.5

Unit: mm

MEASUREMENT METHOD



MECHANICAL CHARACTERISTICS

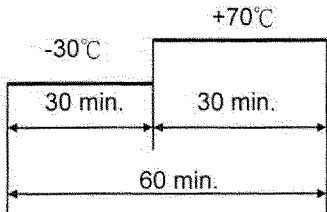
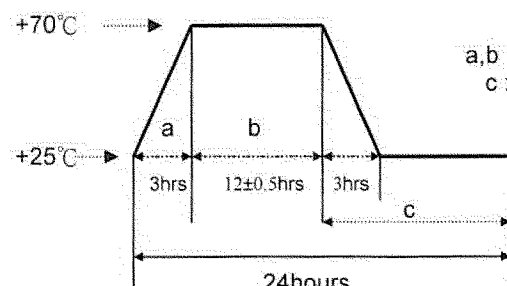
| No. | Item | Test condition | Evaluation standard |
|-----|------------------------------|--|--|
| 1 | Solderability ¹ | Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5°C for 3±1 seconds. | 90% min. lead terminals shall be wet with solder. (Except the edge of terminal) |
| 2 | Soldering Heat Resistance | Lead terminal are immersed up to 1.5mm from sounder's body in solder bath of +260±5°C for 3±1 seconds. | No interference in operation |
| 3 | Terminal Mechanical Strength | The force 10 seconds of 9.8N (1.0kg) 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 per-pendicular directions for 2 hours. | After the test the part shall meet specifications with-out any damage in appearance and the SPL should be in ±10dBA 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). | |

Notes: 1. Not recommended for wave soldering

All information contained herein applies only to the above listed part number. Other versions of this part number with electrical or mechanical variations are available. Contact CUI Inc. for further assistance.



ENVIRONMENT TEST

| No. | Item | Test condition | Evaluation standard |
|-----|-----------------------|---|--|
| 1 | High temp. test | After being placed in a chamber at +70°C for 96 hours. | After the test the part shall meet specifications with-out any degradation in appearance and performance except SPL after 4 hours at +25°C. the SPL should be in ±10dBA compared with initial one. |
| 2 | Low temp. test | After being placed in a chamber at -30°C for 96 hours. | |
| 3 | Thermal Shock | The part shall be subjected to 10 cycles. One cycle shall consist of;  | |
| 4 | Temp./ Humidity Cycle | The part shall be subjected to 10 cycles. One cycle shall be 24 hours and consist of;  | |

RELIABILITY TEST

| No. | Item | Test condition | Evaluation standard |
|-----|---------------------|---|--|
| 1 | Operating life test | 1.Continuous life test The part shall be subjected to 72 hours at +45°C with 1.5V, 2048Hz applied. 2.Intermittent life test A duty cycle of 1 minute on, 1 minutes off, a minimum of 10000 times at room temp.(+25±10°C) with 1.5V, 2048Hz applied. | After the test the part shall meet specifications with-out any degradation in appearance and performance except SPL after 4 hours at +25°C. the SPL should be in ±10dBA compared with initial one. |

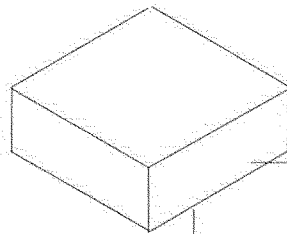
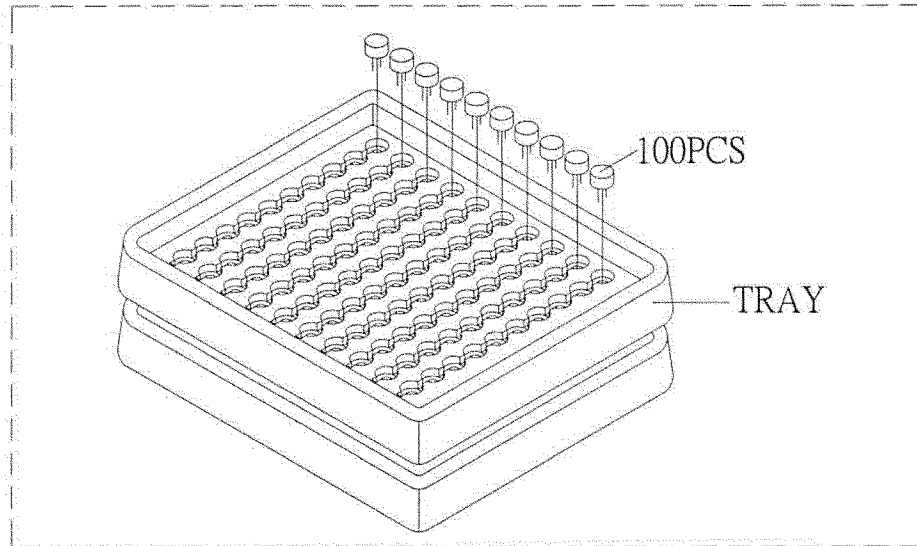
TEST CONDITION.

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

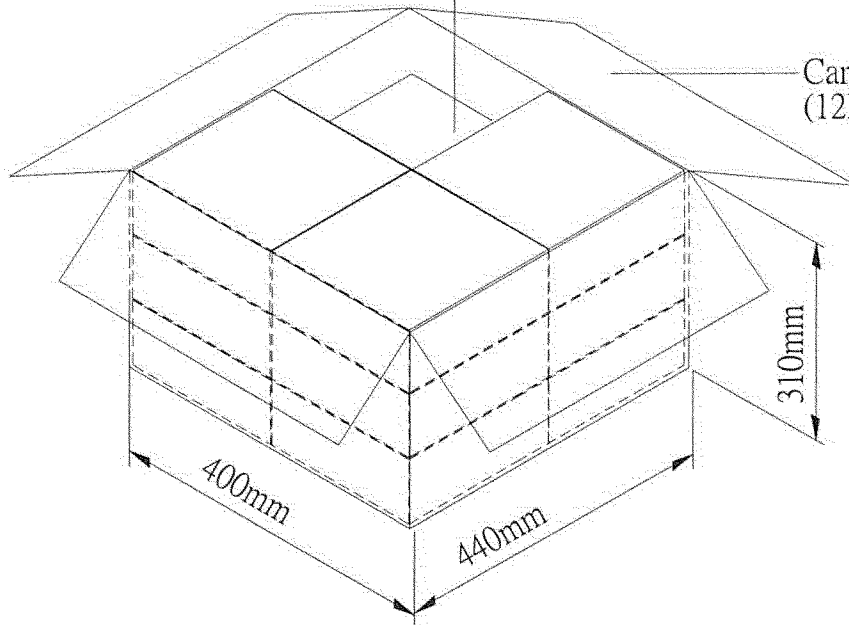
Judgement Test Condition : a) Temperature : +25 ± 2°C b) Humidity : 60-70% c) Pressure : 860-1060mbar

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PACKING STANDARD



Out Box
(5PCS Tray)



Carton Box
(12PCS Out Box)

| | | |
|------------|-------------------|----------------------|
| Tray | 184mmx184mmx23mm | 1x100PCS=100PCS |
| Out Box | 200mmx190mmx100mm | 5LAYERx100PCS=500PCS |
| Carton Box | 440mmx400mmx310mm | 500PCSx12=6,000PCS |