

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Description: magnetic buzzer

Date: 9/13/2006

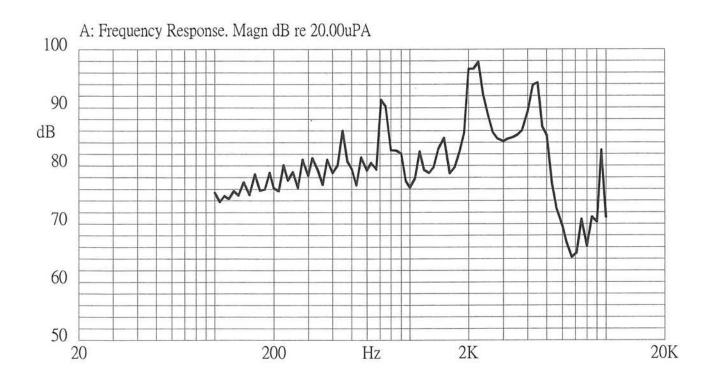
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Specifications

| Rated voltage | 12 Vo-p | Vo-p ▼ □ □ |
|-----------------------|--------------------------|---|
| Operating voltage | 6.0 - 18.0 Vo-p | OV |
| Mean current | 40 mA max. | Applying rated voltage, 2048 Hz |
| | | square wave, ½ duty |
| Coil resistance | 115.0 ±17.0 Ω | |
| Sound output | Min. 85 (Typical 97) dBA | Distance at 10cm (A-weight free air). |
| | | Applying rated voltage of 2048 Hz, square |
| | | wave, ½ duty. |
| Rated frequency | 2,048 Hz | |
| Operating temperature | -20 ~ +60° C | |
| Storage temperature | -30 ~ +70° C | |
| Dimensions | ø16.0 x H14.0 mm | See attached drawing |
| Weight | 4.6 g | |
| Material | PPO (Black) | |
| Terminal | Pin type (Au Plating) | See attached drawing |
| RoHS | yes | |

Frequency Response Curve



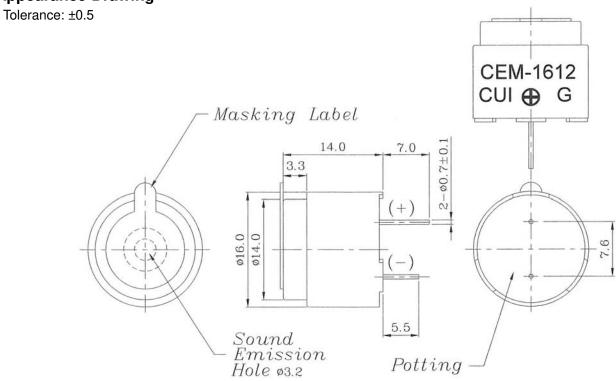


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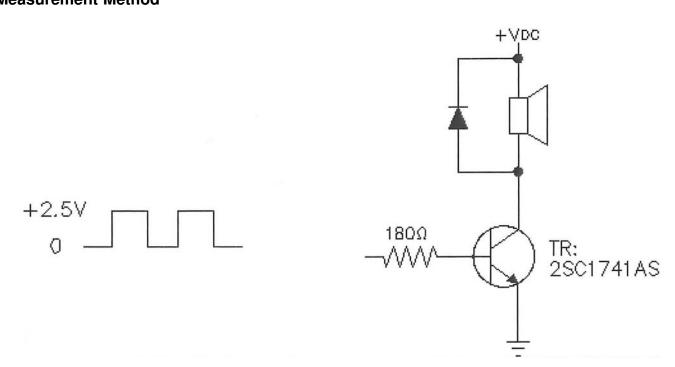
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Appearance Drawing



Measurement Method





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Mechanical Characteristics

| Item | Test Condition | Evaluation Standard |
|------------------------------|---|------------------------------------|
| Solderability ¹ | Lead terminals are immersed in rosin for 5 | 90% min. lead terminals should |
| | seconds and then immersed in solder bath | be wet with solder. |
| | of 270 ±5°C for 3 ±1 seconds. | (Except the edge of the terminal.) |
| Soldering Heat Resistance | Lead terminals are immersed up to 1.5 mm | |
| | from the buzzer's body in solder bath of | No in interference in operation. |
| | 260 ±5°C for 3 ±1 seconds. | |
| Terminal Mechanical Strength | Apply a force of 9.8 N (1.0 kg) to each terminal | No damage or cutting off. |
| | in each axial direction. | |
| Vibration | The buzzer will be measured after applying | After the test, the part should |
| | a vibration amplitude of 1.5mm with 10 to 55 Hz | meet specifications without any |
| | band of vibration frequency to each of | damage to the appearance and |
| | the 3 perpendicular directions for 2 hours. | the SPL should be within |
| Drop Test | The part is to be dropped from a height of | ±10 dBA of the initial |
| | 75 cm onto a 40 mm thick wooden board 3 | measurement. |
| | times in 3 axis (X, Y, Z) for a total of 9 drops. | |

Notes: 1. Not recommended for wave soldering

Environment Test

| Item | Test Condition | Evaluation Standard |
|----------------------|---|--|
| High temp. test | The part will be subjected to +70°C for 96 hours. | |
| Low temp. test | The part will be subjected to -30°C for 96 hours | |
| Thermal shock | The part will be subjected to 10 cycles. One cycle will consist of: $+70^{\circ}$ C | |
| | -30°C 30 min. 30 min. 60 min. | After the test, the part should meet specifications without any damage to the appearance or performance except SPL. After 4 hours at 25°C, the SPL should be within ±10 dBA of the initial |
| Temp./Humidity cycle | The part shall be subjected to 10 cycles. One cycle will be 24 hours and consist of: +70°C a,b:90~98%RH c:80~98%RH c:80~98%RH | measurement. |



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Reliability Tests

| Item | Test Condition | Evaluation Standard |
|-----------------------|--|--|
| Operating (Life Test) | Continuous life test: | |
| | The part will be subjected to 72 hours at 45°C with 12 V, 2048 Hz applied. | After the test, the part shall meet specifications without any damage to the appearance. After |
| | 2. Intermittent life test: | 4 hours at +25°C, the SPL |
| | A duty cycle of 1 minute on, 1 minute off, a minimum of 10,000 times at room temp. (+25 ±10°C) with 12 V, 2048 Hz applied. | should be within ± 10 dBA of the initial SPL. |

Test Conditions

| Standard Test Condition | a) Tempurature: +5 ~ +35°C | b) Humidity: 45 - 85% | c) Pressure: 860 - 1060 mbar |
|--------------------------|----------------------------|-----------------------|------------------------------|
| Judgement Test Condition | a) Tempurature: +25±2°C | b) Humidity: 60 - 70% | c) Pressure: 860 - 1060 mbar |

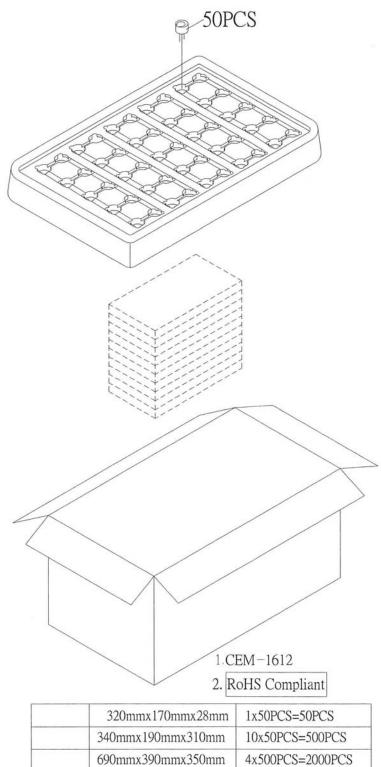


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Packaging



| 690mmx390mmx350mm 4x500PCS=2000F | | 690mmx390mmx350mm | 4x500PCS=2000PCS |
|----------------------------------|--|-------------------|------------------|
|----------------------------------|--|-------------------|------------------|

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