

Excellent Integrated System Limited

Stocking Distributor

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<u>CUI Inc.</u> <u>CEP-2224</u>

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>





Part No: CEP-2224

Description: piezo audio indicator

Date: 9/19/2006 Unit: mm Page No: 1 of 4

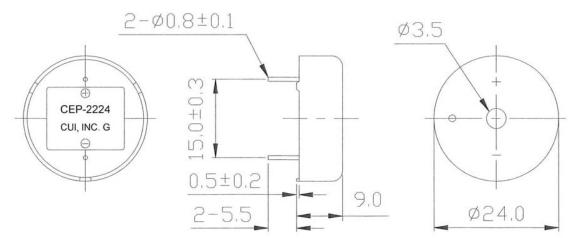


Specifications

| opecifications | | |
|-----------------------|-----------------------|----------------------|
| Resonant frequency | 3.4 ± 0.5 KHz | |
| Operating voltage | 3.0 ~ 20.0 V dc | |
| Current consumption | 15 mA max. | at 12 V dc |
| Sound pressure level | 78 db min. | at 30 cm / 12 V dc |
| Rated Voltage | 12 V dc | |
| Tone | Continuous | |
| Operating tempurature | -30 ~ +85° C | |
| Storage tempurature | -40 ~ +95° C | |
| Dimensions | ø24.0 x H9.0 mm | See attached drawing |
| Weight | 1.2 g max. | |
| Material | ABS PA-777D (Black) | |
| Terminal | Pin type (Sn Plating) | See attached drawing |
| RoHS | yes | |
| | | |

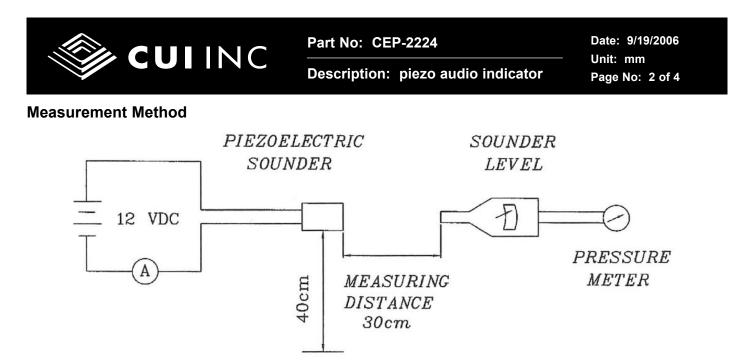
Appearance Drawing

Tolerance: ±0.5





Distributor of CUI Inc.: Excellent Integrated System Limited Datasheet of CEP-2224 - BUZZER PIEZO 12V 24MM RADIAL Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com For more information, please visit the product page.



S.P.L. Measuring Circuit Mic: RION S.P.L. meter UC 30 or equivalent

Mechanical Characteristics

| Item | Test Condition | Evaluation Standard | |
|------------------------------|---|----------------------------------|--|
| Solderability ¹ | Lead terminals are immersed in rosin for | 90% min. of the lead terminals | |
| | 5 seconds and then immersed in solder bath | will be wet with solder. (Except | |
| | of +270 ±5°C for 3 ±1 seconds. | the edge of the terminal) | |
| Soldering Heat Resistance | Lead terminals are immersed up to 1.5mm from | | |
| - | buzzer's body in solder bath of +300±5°C for | No interference in operation. | |
| | 3±0.5 seconds or 260±5°C for 10±1 seconds. | | |
| Terminal Mechanical Strength | For 10 seconds, the force of 9.8N (1.0kg) is | No damage or cutting off. | |
| | applied to each terminal in axial direction. | | |
| Vibration | The buzzer will be measured after applying | The value of oscillation | |
| | a vibration amplitude of 1.5 mm with 10 to | frequency/current consumption | |
| | 55 Hz band of vibration frequency to each of | should be ±10% of the initial | |
| | the 3 perpendicular directions for 2 hours. | measurements. The SPL should | |
| Drop Test | The part will be dropped from a height of 75 cm | be within ±10dB compared with | |
| | onto a 40 mm thick wooden board 3 times in | the initial measurement. | |
| | 3 axis (X, Y, Z) for a total of 9 drops. | | |

Notes: 1. Not recommended for wave soldering





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Environment Test

| ltem | Test Condition | Evaluation Standard |
|------------------|--|--|
| High temp. test | After being placed in a chamber at +95°C for 240 hours. | |
| Low temp. test | After being placed in a chamber at -40°C for 240 hours. | The buzzer will be measured after being placed at +25°C for 4 hours. The value of the oscillation frequency/current consumption should be within ±10% compared to the initial measurements. The SPL should be within ±10dB compared to the initial measurements. |
| Humidity test | After being placed in a chamber at +40°C and 90±5% relative humidity for 240 hours. | |
| Temp. cycle test | The part shall be subjected to 5 cycles. One cycle will consist of: | |

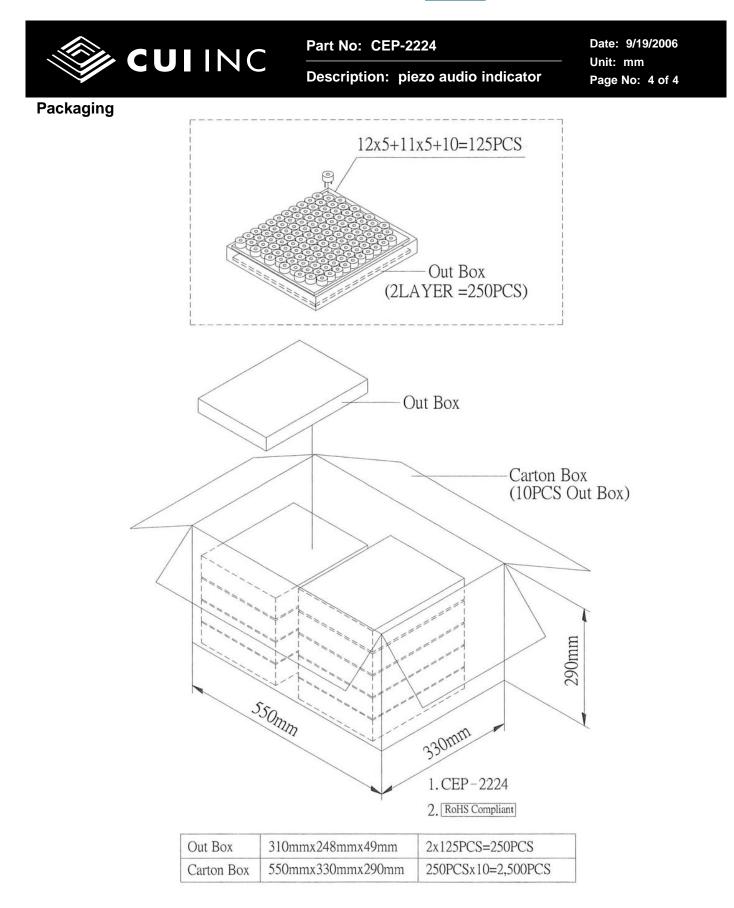
| ltem | Test Condition | Evaluation Standard |
|-----------------------|---|---|
| Operating (Life Test) | 1. Continuous life test: | The buzzer will be measured afte |
| | The part will be subjected to 48 hours of | being placed at +25°C for 4 |
| | continuous operation at +70°C with rated | hours. The value of the |
| | voltage applied. | oscillation frequency/current consumption should be ±10% |
| | 2. Intermittent life test: | compared to the initial |
| | A duty cycle of 1 minute on, 1 minutes off, a | measurements. The SPL should |
| | minimum of 5,000 times at room temp | be ±10dB compared to the initial |
| | (+25±2°C) with rated voltage applied. | measurements. |

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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