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date 11/12/2007

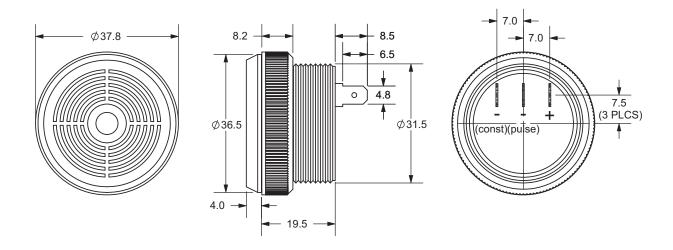
PART NUMBER: CPE-755 **DESCRIPTION:** panel mount piezo indicators

SPECIFICATIONS

| operating frequency | $3.6 \pm 0.5 \text{ KHz}$ | | |
|-------------------------|---------------------------|---------------------------|------------------|
| operating voltage range | 6 ~ 28 V DC | | |
| rated voltage | 12 V DC | | |
| tone | continuous | fast pulse (3.0 ± 0.6 Hz) | at 12 V DC |
| current consumption | 7 mA max. | 6 mA max. | at 12 V DC |
| sound pressure level | 85 db min. | 80 db min. | at 30 cm/12 V DC |
| operating tempurature | -30 ~ +85° C | | |
| storage tempurature | -40 ~ +95° C | | |
| dimensions | Ø37.8 x H23.5 mm | | |
| weight | 18.5 g max. | | |
| material | ABS UL-94 1/16" HB | (gray) | |
| terminal | pin type (Au plating) | | |
| RoHS | yes | | |

APPEARANCE DRAWING

tolerance: ±0.5 units: mm





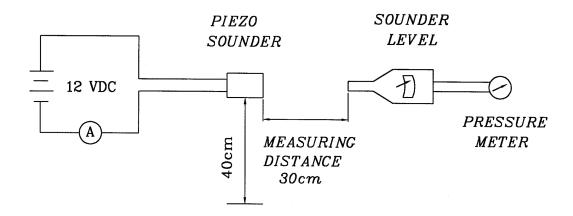
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MEASUREMENT METHOD

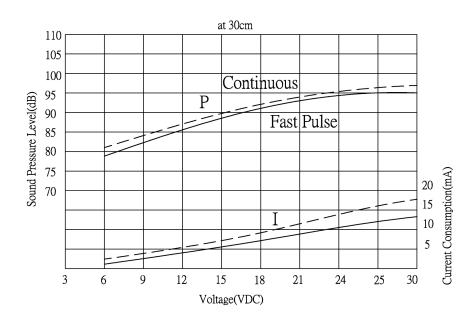
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S.P.L. Measuring Circuit

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

CURRENT CONSUMPTION/SOUND PRESSURE LEVEL





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MECHANICAL CHARACTERISTICS

| item | test condition | evaluation standard |
|------------------------------|---|------------------------------------|
| solderability | 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 |
| | of 270 ±5°C for 3 ±1 seconds. | (except 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 shall 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 | be within ±10dB compared with |
| · | 75 cm onto a 40 mm thick wooden board 3 | the initial measurement. |
| | times in 3 axes (X, Y, Z) for a total of 9 drops. | |

ENVIRONMENT TEST

| item | 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. | |
| humidity test | After being placed in a chamber at +40°C and 90±5% relative humidity 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 ±10% compared to the initial measurements. The SPL should be within ±10dB compared to the initial measurements. |
| temp. cycle test | The part shall be subjected to 5 cycles. One cycle will consist of: +95°C -40°C 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 3hours | |



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RELIABILITY TEST

| item | test condition | evaluation standard |
|-----------------------|---|--|
| operating (life test) | 1. Continuous life test: | The buzzer will be measured after |
| , , | 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 minimum of 5,000 times at room temp | measurements. The SPL should be within ±10dB compared to |
| | (+25 ±2°C) with rated voltage applied. | the initial 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 |



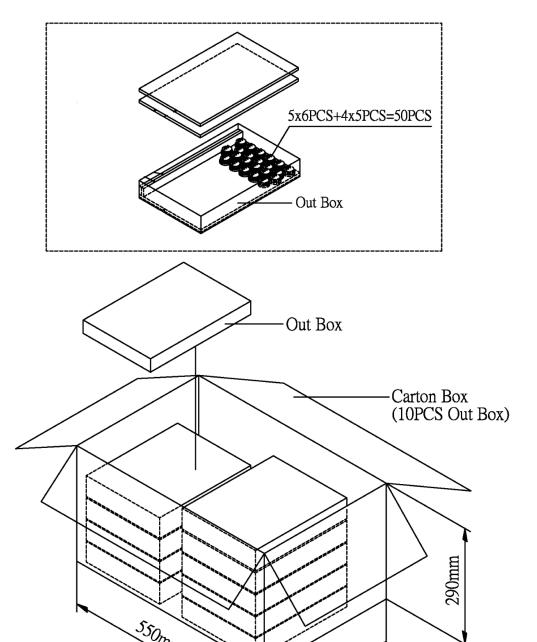
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PACKAGING

PART NUMBER: CPE-755



| Out Box | 310mmx248mmx49mm | 1x50PCS=50PCS |
|------------|-------------------|-----------------|
| Carton Box | 550mmx330mmx290mm | 50PCSx10=500PCS |