



SPECIFICATION OF PRODUCT 承认书

CUSTOMER: _____

DESCRIPTION: Piezo Buzzer

FUSHENG P/N: FSD-4216-12V

CUSTOMER P/N: _____

DATE: _____

| CUSTOMER | APPROVER | CHECKER |
|----------|------------|----------|
| | Yunqing Wu | Bing Yan |

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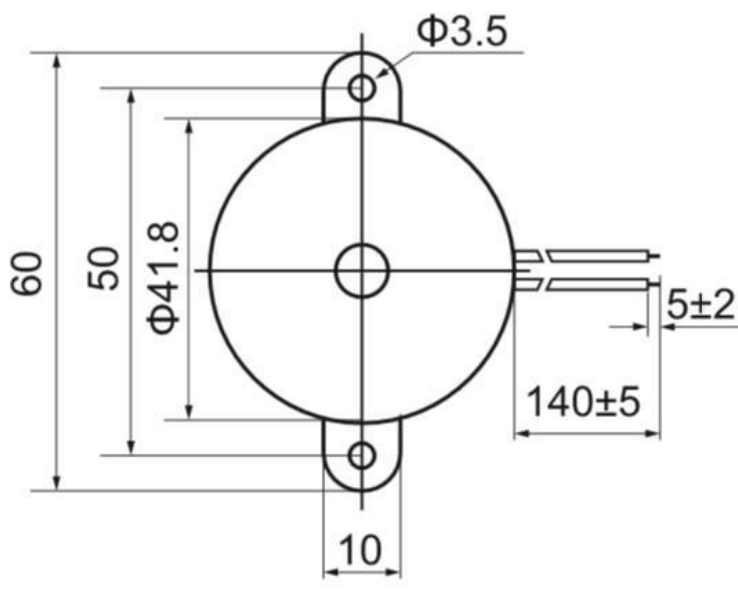


1. SPECIFICATION 规格

| No. | Item | Unit | Specification | Condition |
|-----|-------------------------------------|------|---------------|--------------------------|
| 1 | Oscillation Frequency | Hz | 2900 | |
| 2 | Operating Voltage | VDC | 3 ~ 24 | |
| 3 | Rated Voltage | VDC | 12 | |
| 4 | Current Consumption | mA | MAX. 20 | at Rated Voltage |
| 5 | Sound Pressure Level | dB | MIN. 90 | at 10cm at Rated Voltage |
| 6 | Operating Temperature | °C | -20 ~ +70 | |
| 7 | Storage Temperature | °C | -30 ~ +85 | |
| 8 | Dimension | mm | Φ42.0x H16 | See appearance drawing |
| 9 | Weight (MAX) | gram | 11 | |
| 10 | Housing Material | | ABS(Black) | |
| 11 | Leading Pin | | Wire Type | See appearance drawing |
| 12 | Environmental Protection Regulation | | RoHS | |

2. APPEARANCE DRAWING 尺寸图

UNT: mm / Tolerance: ±0.5mm
 Continuous tone



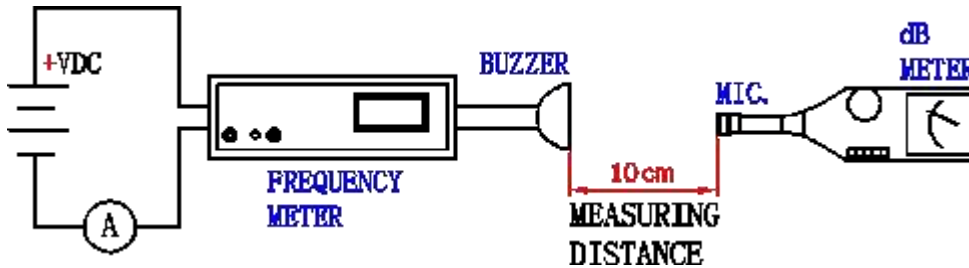
3. TESTING METHOD 测量方式

Standard Measurement conditions

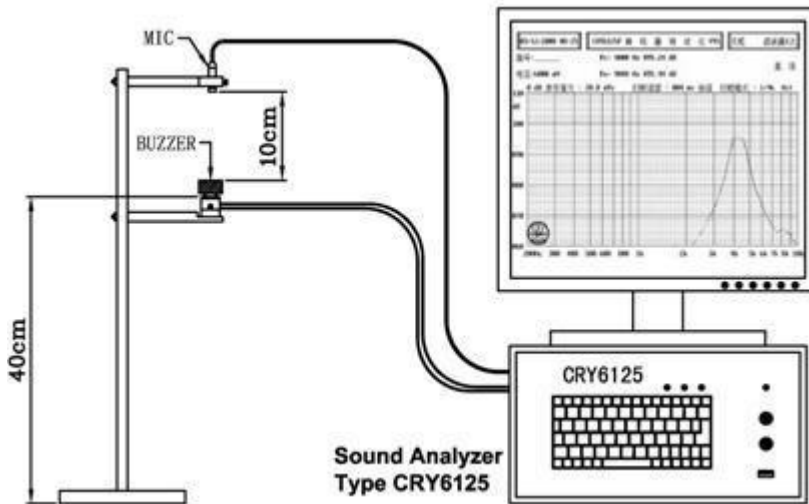
Temperature: $25 \pm 2^\circ\text{C}$ Humidity: 45-65%

Acoustic Characteristics:

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below

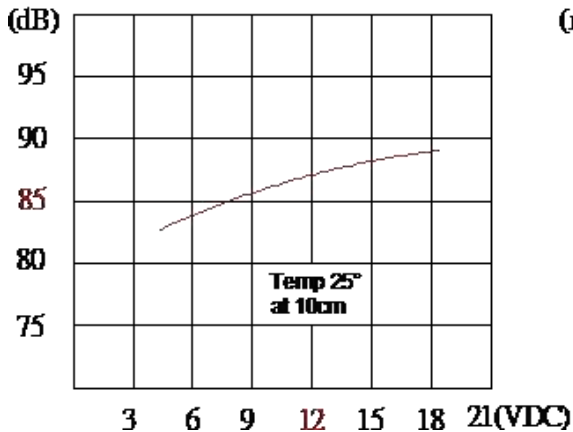


In the measuring test, buzzer is placed as follows:

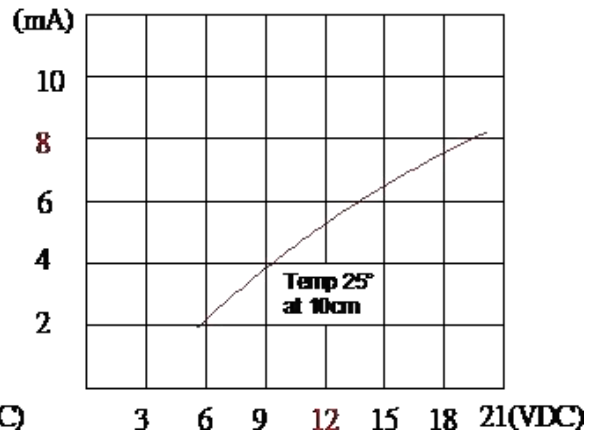


4. VOLTAGE / CURRENT / SOUND PRESSURE CHARACTERISTICS

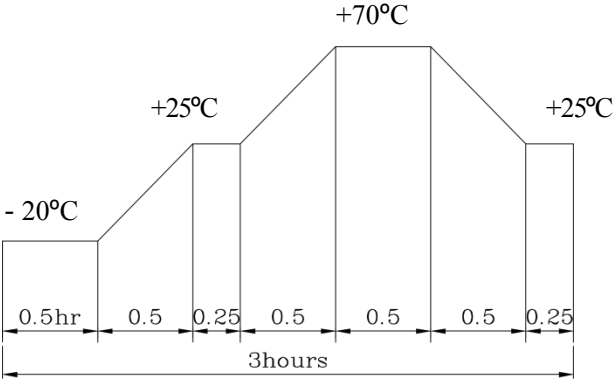
dB-V



mA-V



5. RELIABILITY TEST 可靠性测试

| NO. | ITEM | TEST CONDITION AND REQUIREMENT |
|-----|---------------------------------|--|
| 1 | High Temperature Test (Storage) | After being placed in a chamber with 80 °C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB. |
| 2 | Low Temperature Test (Storage) | After being Placed in a chamber with -30 °C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB. |
| 3 | Humidity Test | After being Placed in a chamber with 90-95% R.H. at 40 °C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB. |
| 4 | Temperature Cycle Test | The part shall be subjected to 5 cycles. One cycle shall be consist of:  <p>The diagram shows a temperature cycle profile over 3 hours. It starts at -20°C for 0.5 hours, then ramps up to +25°C in 0.5 hours, holds at +25°C for 0.25 hours, ramps up to +70°C in 0.5 hours, holds at +70°C for 0.5 hours, ramps down to +25°C in 0.5 hours, holds at +25°C for 0.25 hours, and finally ramps down to -20°C in 0.25 hours. The total duration is 3 hours.</p> Allowable variation of SPL after test: 10dB. |
| 5 | Drop Test | Drop on a hard wood board of 4cm thick, any directions, 6 times, at the height of 75cm. Allowable variation of SPL after test: 10dB. |
| 6 | Vibration Test | After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: 10dB. |
| 7 | Solderability Test | Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300 °C for 3 1 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals). |
| 8 | Terminal Strength Pulling Test | The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off. |

TEST CONDITION.

| | | | | |
|-------------------------|---|---------------------------|---------------------|---------------------------|
| Standard Test Condition | : | a) Temperature: +5~ +35°C | b) Humidity: 45-85% | c) Pressure: 860-1060mbar |
| 一般测试条件 | : | a) 温度 : +5 ~ +35°C | b) 湿度 : 45-85% | c) 气压 : 860-1060mbar |
| Judgment TestCondition | : | a) Temperature: +25 ± 2°C | b) Humidity: 60-70% | c) Pressure: 860-1060mbar |
| 争议时测试条件 | : | a) 温度 : +25 ± 2°C | b) 湿度 : 60-70% | c) 气压 : 860-1060mbar |

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