



**Round Buzzer**  
**With Pin**  
**Ø12.0 × 9.5 mm**  
  
**CC12M095P-2400**

**Revision**

| <b>Date</b> | <b>Version</b> | <b>Status</b> | <b>Changes</b> | <b>Approver</b> |
|-------------|----------------|---------------|----------------|-----------------|
| 2019/7/19   | V0.1           | Draft         | First release  | AX              |
| 2019/7/22   | V0.2           | Draft         | Add print code | AX              |

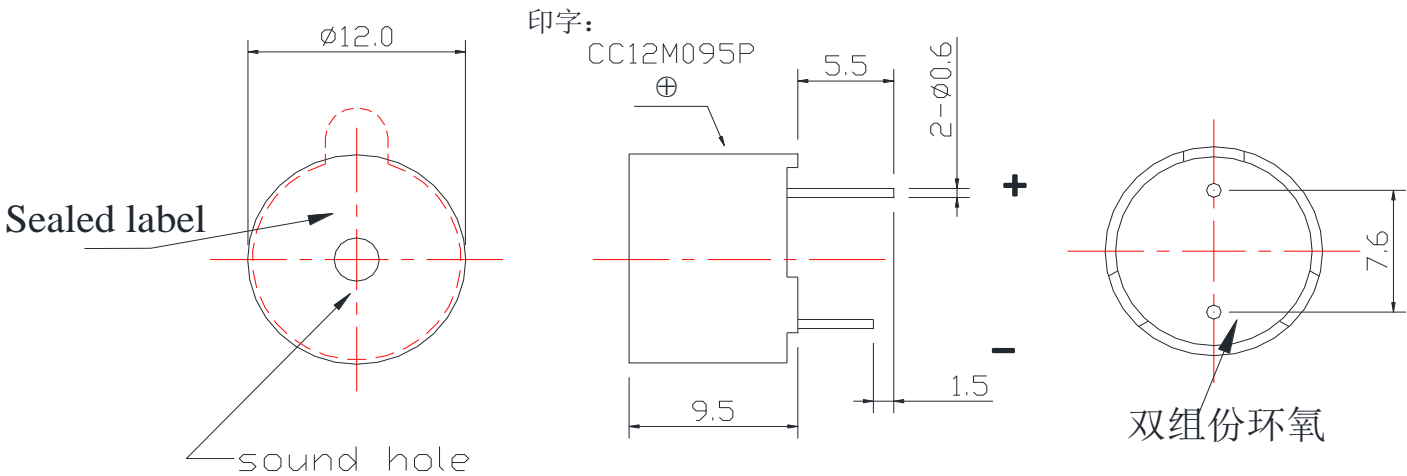
## SPECIFICATIONS

| Parameter                           | Conditions/Description   | Values        | Units |
|-------------------------------------|--------------------------|---------------|-------|
| Oscillation Frequency               |                          | $2.4 \pm 0.3$ | KHz   |
| Operating Voltage                   |                          | 3~8           | Vdc   |
| Rated Voltage                       |                          | 5             | Vdc   |
| Current Consumption                 | at Rated Voltage         | MAX.30        | mA    |
| Sound Pressure Level                | at 10cm at Rated Voltage | MIN.85        | dB    |
| Tone Nature                         |                          | Constant      |       |
| Operating Temperature               |                          | -20~ +70      | °C    |
| Storage Temperature                 |                          | -20 ~ +70     | °C    |
| Dimension                           | See appearance drawing   | Φ12x H9.5     | mm    |
| Weight (MAX)                        |                          | 1.8           | gram  |
| Housing Material                    |                          | PBT( Black )  |       |
| Environmental Protection Regulation |                          | RoHS          |       |

Notes: All specifications measured at 15~35°C, humidity at 25~75%, under 86~106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

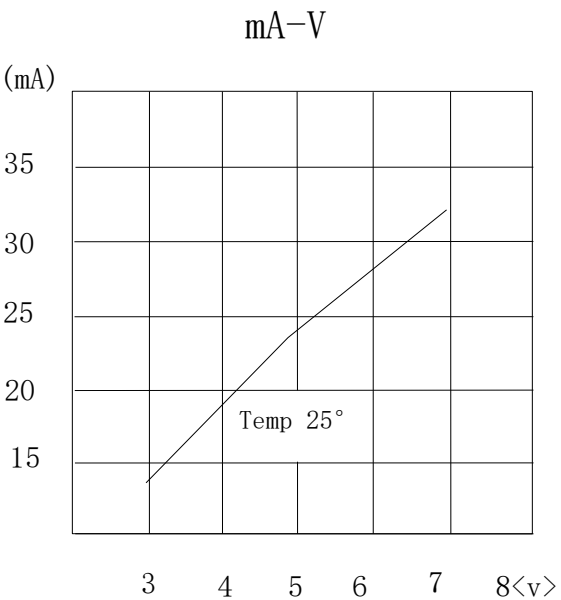
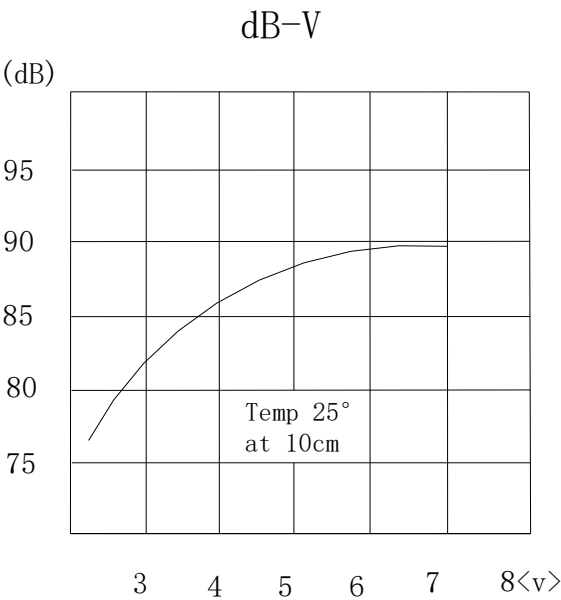
Units: mm  
Tolerance: ±0.4mm



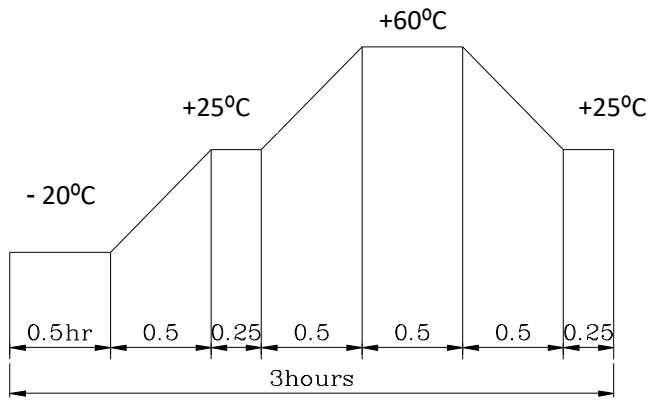
RESPONSE CURVES

Frequency Response Curve

Test condition: 0.1M,



## RELIABILITY TEST

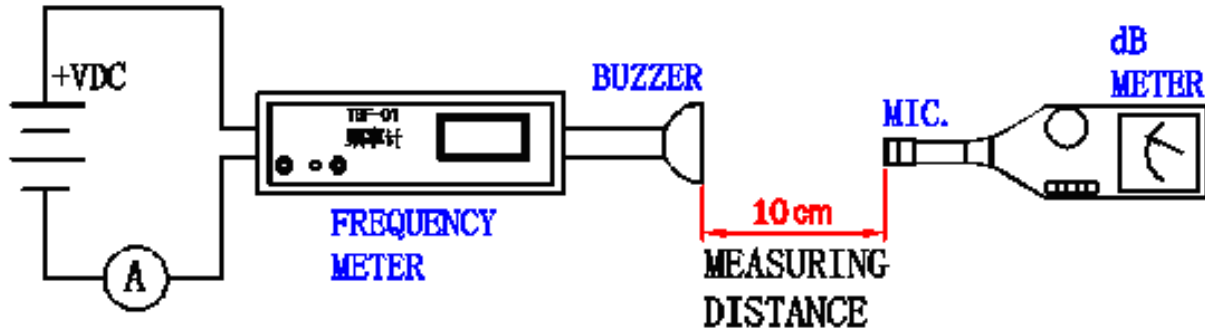
|   |                                 |   |
|---|---------------------------------|---|
| 1 | Reliability Test Performance    | After any following test, parts should conform to original performance within $\pm 3$ dB tested with Rated Power, after 6 hours of recovery period.   |
| 2 | High Temperature Test (Storage) | After being placed in a chamber with $70 \pm 2^\circ\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10$ dB.   |
| 3 | Low Temperature Test (Storage)  | After being Placed in a chamber with $-20 \pm 2^\circ\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10$ dB.  |
| 4 | Humidity Test                   | After being Placed in a chamber with 90-95% R.H. at $40 \pm 2^\circ\text{C}$ for 96 hours and then being placed in normal condition for 2 hours.  |
| 5 | Temperature Cycle Test          | <p>The part shall be subjected to 5 cycles. One cycle shall be consist of:</p>  <p>Allowable variation of SPL after test: <math>\pm 10</math>dB.</p> |
| 6 | 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: $\pm 10$ dB.   |
| 7 | 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: $\pm 10$ dB.                                 |
| 8 | Solderability Test              | Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+300 \pm 5^\circ\text{C}$ for 3-1 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).                    |
| 9 | 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.   |

## MEASURING METHOD

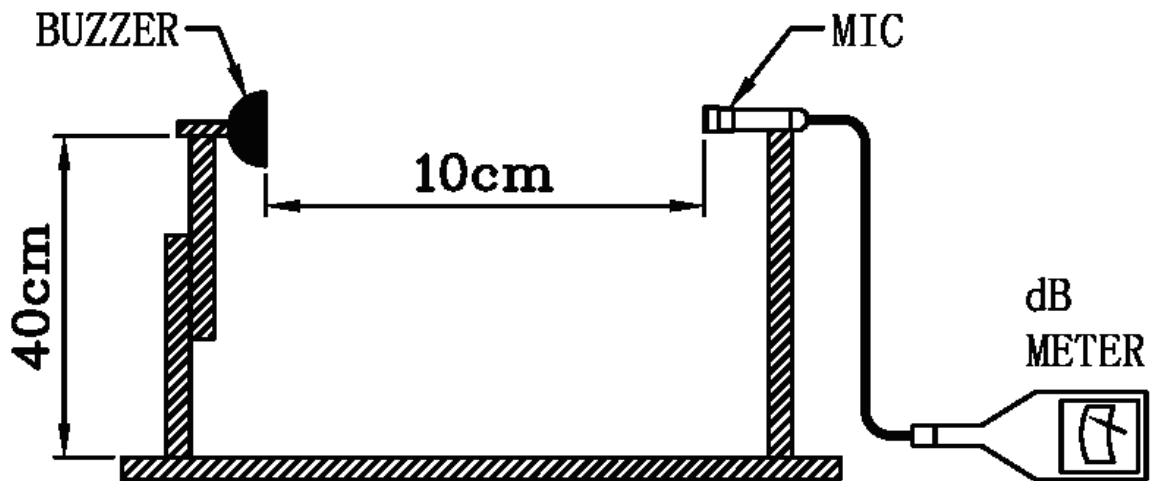
### Standard Measurement conditions

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

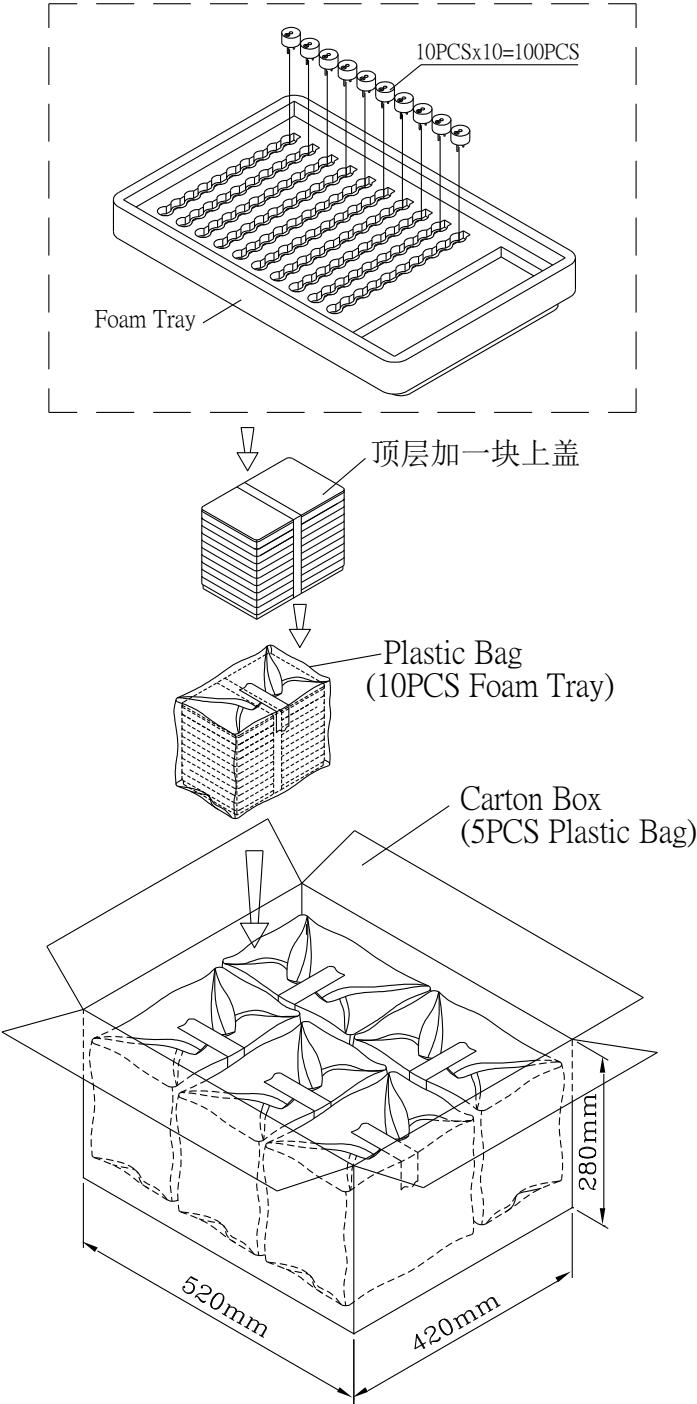
#### Recommended Setting



#### Recommended Test Circuit



PACKAGING



|             |                   |                    |
|-------------|-------------------|--------------------|
| Foam Tray   | 240mmx160mmx30mm  | 1x100PCS=100PCS    |
| Plastic Bag |                   | 10x100PCS=1000PCS  |
| Carton Box  | 520mmx420mmx280mm | 5x1000PCS=5,000PCS |