



**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**

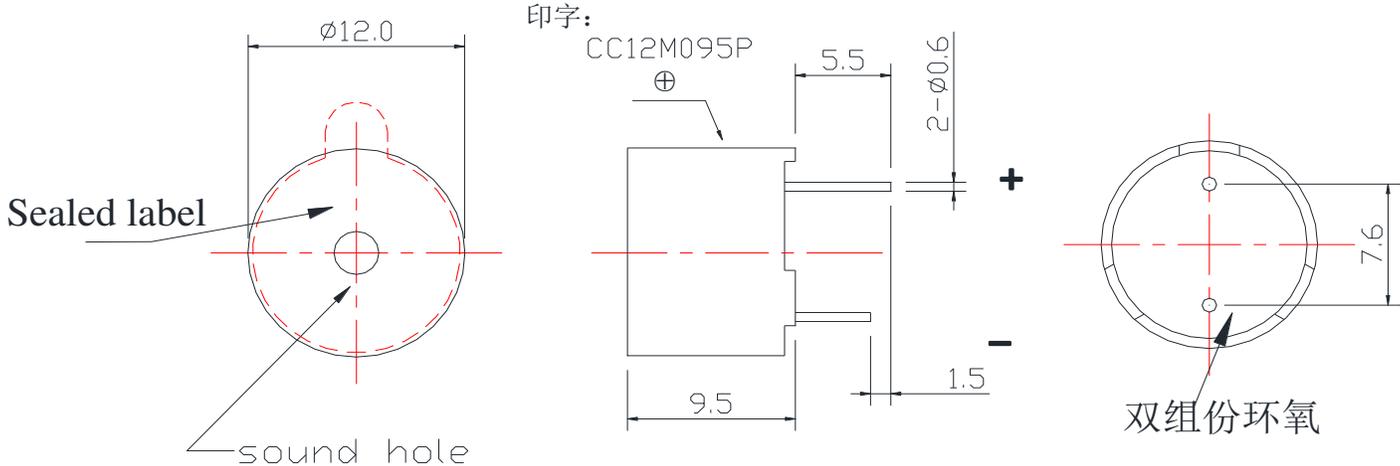
<b>Parameter</b>	<b>Conditions/Description</b>	<b>Values</b>	<b>Units</b>
Oscillation Frequency		2.4±0.3	KHz
Operating Voltage		3~8	Vdc
Rated Voltage		5	Vdc
Current Consumption	at Rated Voltage	MAX.30	mA
Sound Pressure Level	at 10cm at Rated Voltage	MIN.85	dB
Tone Nature		Constant	
Operating Temperature		-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

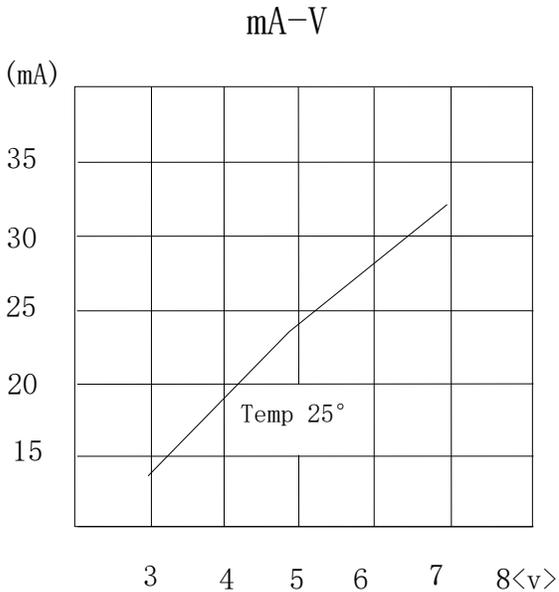
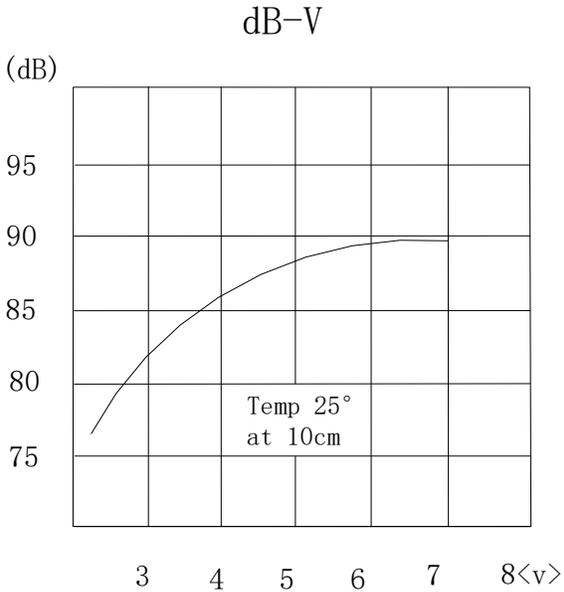
Tolerance: ±0.4mm



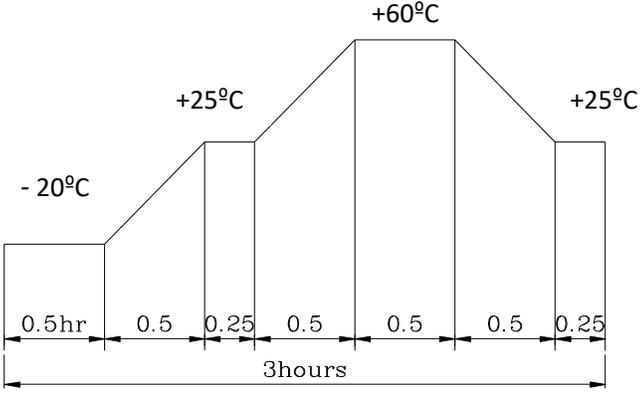
**RESPONSE CURVES**

**Frequency Response Curve**

Test condition: 0.1M,



**RELIABILITY TEST**

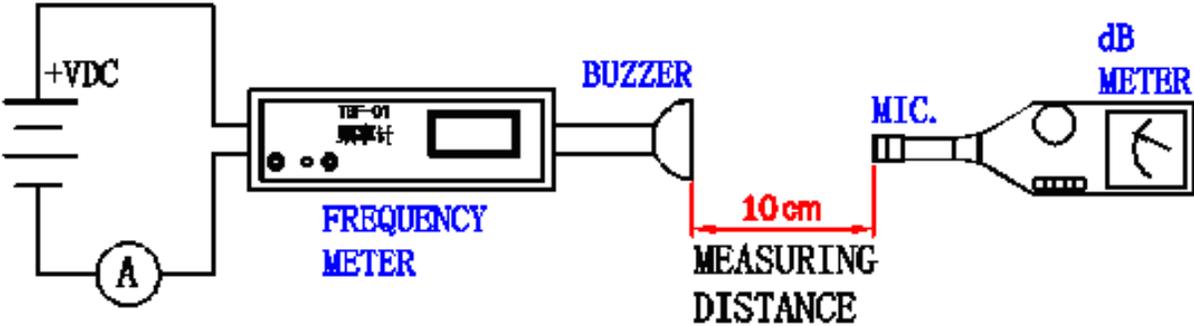
1	Reliability Test Performance	After any following test, parts should conform to original performance within $\pm 3$ dB tested with Rated Power, after 6 hours of recovery period.
2	High Temperature Test (Storage)	After being placed in a chamber with $70 \pm 2^\circ\text{C}$ for 96 hours and then being 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>The diagram shows a temperature cycle profile over a 3-hour period. It starts at <math>-20^\circ\text{C}</math> for 0.5 hours, then ramps up to <math>+25^\circ\text{C}</math> in 0.5 hours, holds at <math>+25^\circ\text{C}</math> for 0.25 hours, ramps up to <math>+60^\circ\text{C}</math> in 0.5 hours, holds at <math>+60^\circ\text{C}</math> for 0.5 hours, ramps down to <math>+25^\circ\text{C}</math> in 0.5 hours, holds at <math>+25^\circ\text{C}</math> for 0.25 hours, and finally ramps down to <math>-20^\circ\text{C}</math> in 0.5 hours. The total duration of one cycle is 3 hours.</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 $3 \pm 1$ 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

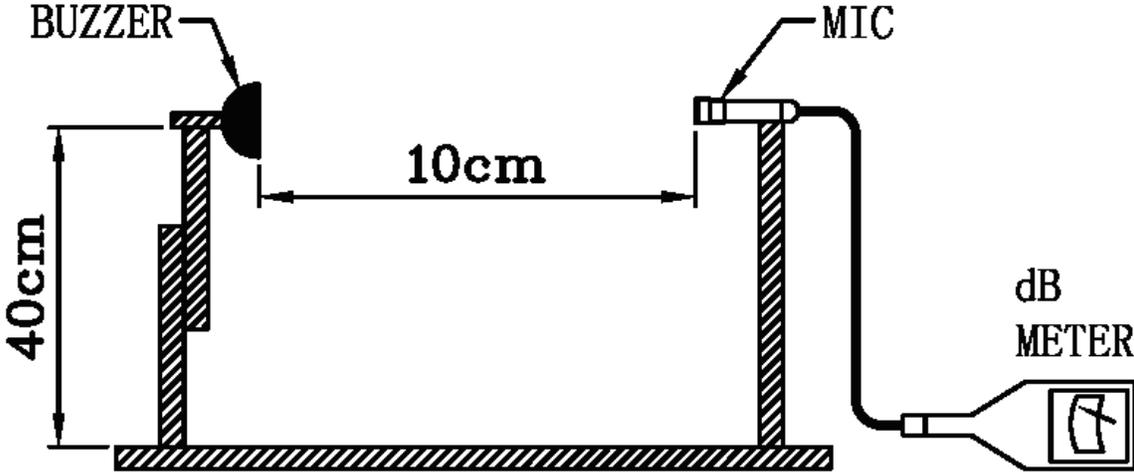
## Standard Measurement conditions

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

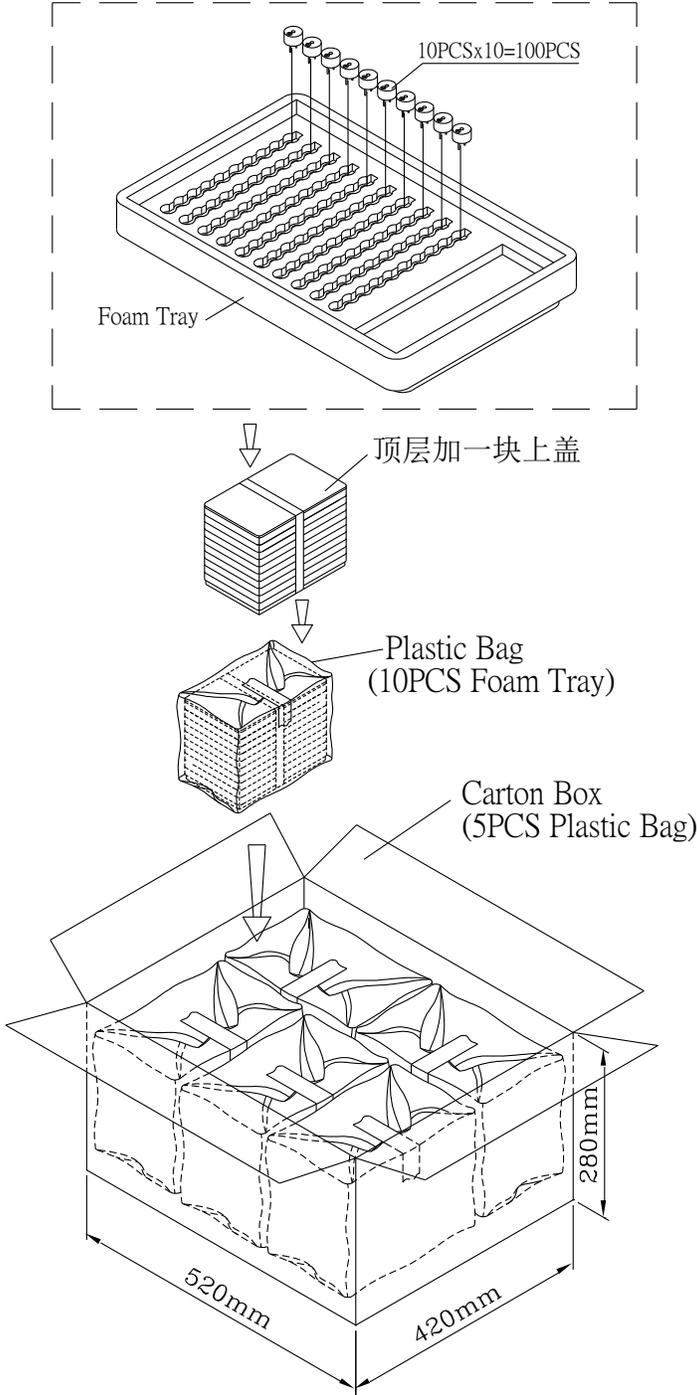
### Recommended Setting



### Recommended Test Circuit



PACKAGING



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