

**MODEL:** CUSP-T80-15-2400-TH | **DESCRIPTION:** ULTRASONIC SENSOR**FEATURES**

- plastic can
- open type
- transmitter
- SPL 105 dB
- detectable range 15 meters

**SPECIFICATIONS**

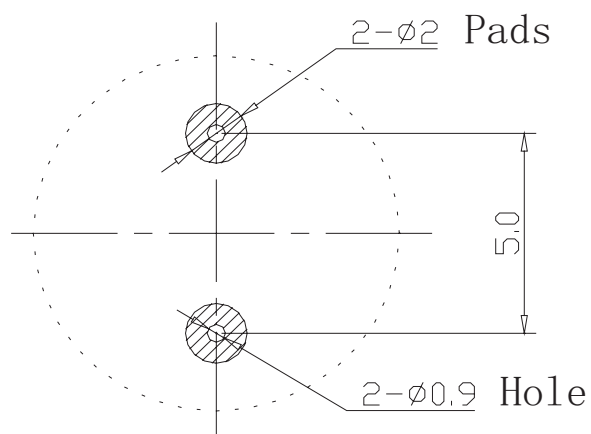
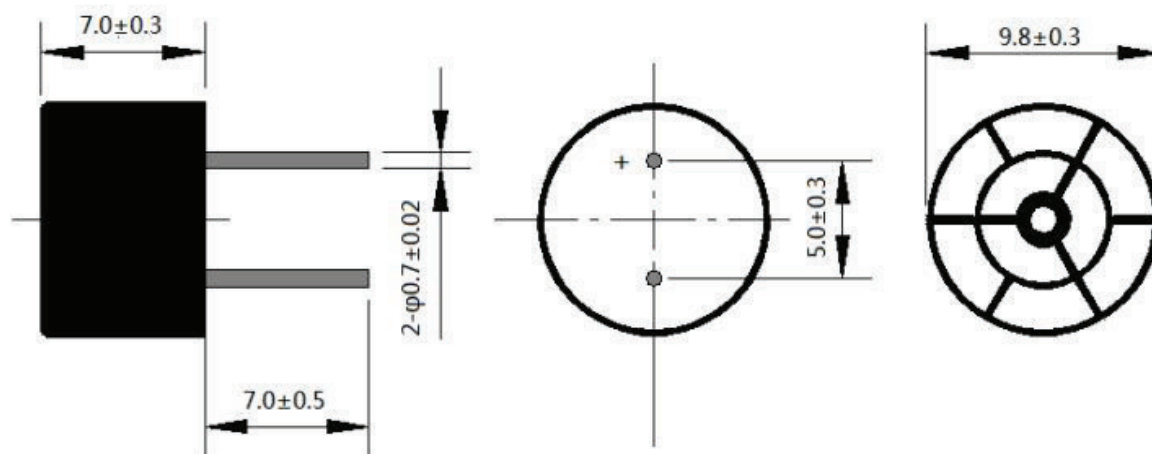
| parameter             | conditions/description       | min   | typ   | max   | units  |
|-----------------------|------------------------------|-------|-------|-------|--------|
| type                  | transmitter                  |       |       |       |        |
| operating voltage     | at 40 kHz                    |       |       | 80    | Vp-p   |
| frequency             |                              |       | 40    |       | kHz    |
| sound pressure level  | at 10 V, 30 cm, sine wave    | 105   |       |       | dB     |
| directivity           |                              |       | 80    |       | degree |
| capacitance           | at 1 kHz                     | 1,800 | 2,400 | 3,000 | pF     |
| detectable range      |                              | 0.2   |       | 15    | m      |
| dimensions            | Ø9.8 x 7.0                   |       |       |       | mm     |
| material              | ABS                          |       |       |       |        |
| terminal              | pins (iron with tin plating) |       |       |       |        |
| weight                |                              |       | 0.58  |       | g      |
| operating temperature |                              | -20   |       | 80    | °C     |
| RoHS                  | yes                          |       |       |       |        |

**SOLDERABILITY**

| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| hand soldering | for 3 ± 0.5 seconds    | 370 | 380 | 390 | °C    |

## MECHANICAL DRAWING

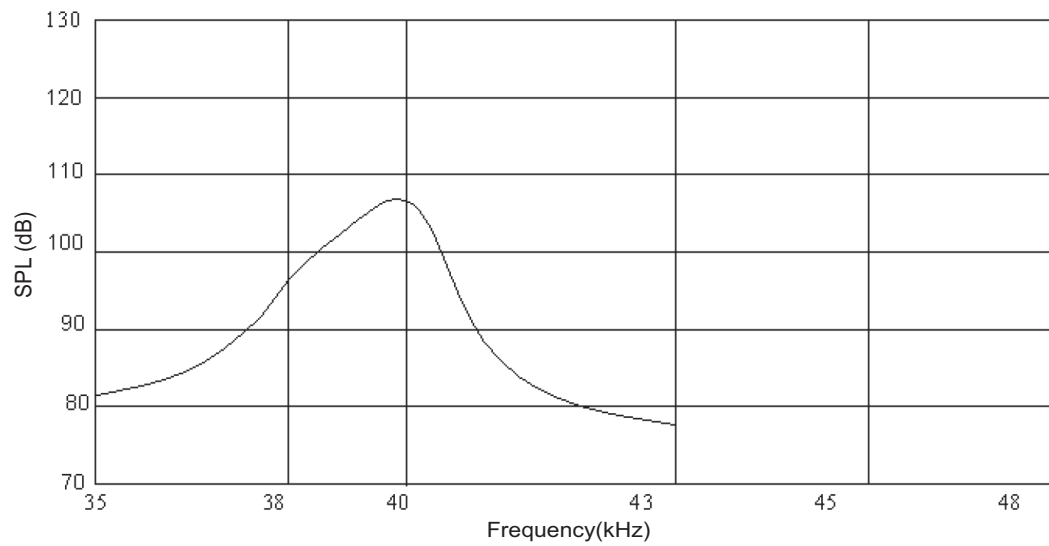
units: mm



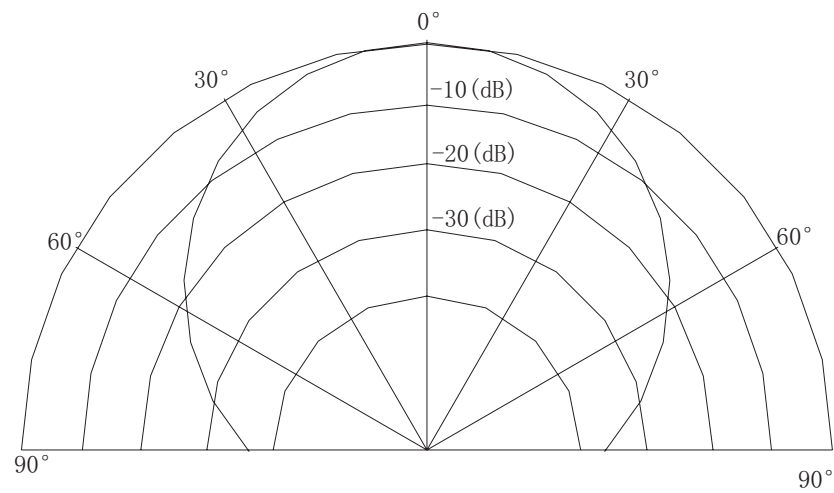
Recommended PCB Layout  
Top View

## BEAM PATTERNS

SPL vs. Frequency



Directivity



## PACKAGING

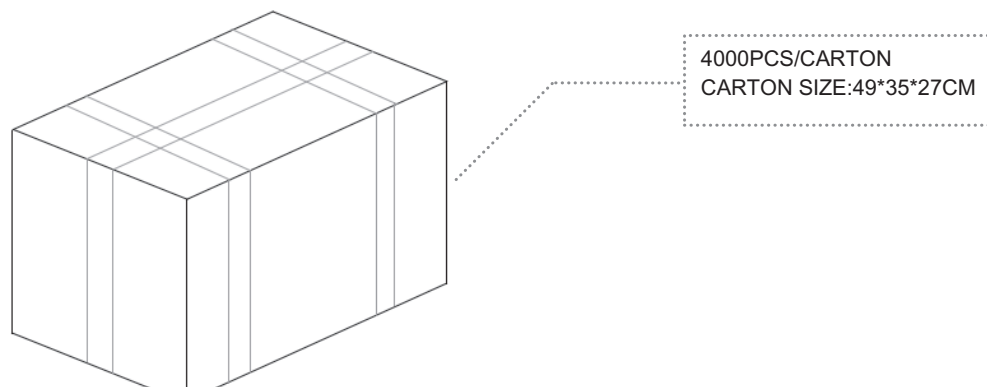
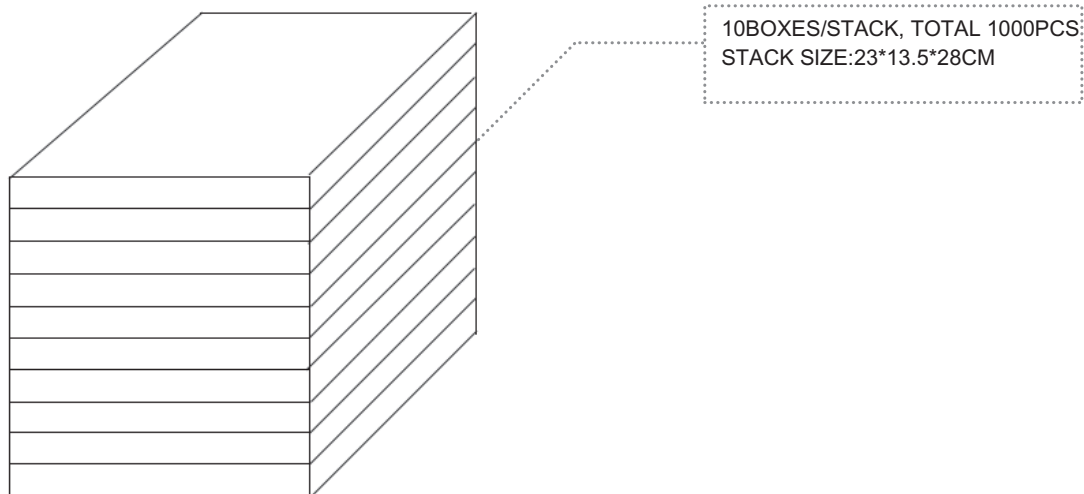
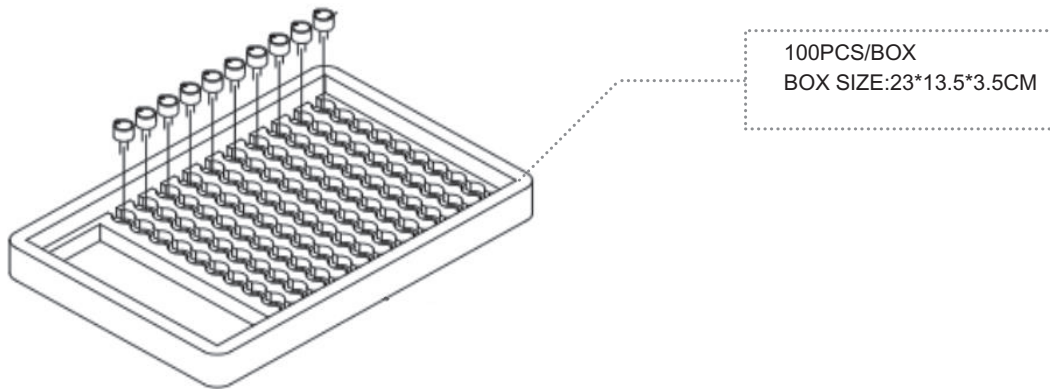
units: mm

Tray Size: 230 x 135 x 35 mm

Tray QTY: 100 pcs per tray

Carton Size: 490 x 350 x 270 mm

Carton QTY: 4,000 pcs per carton



## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 12/02/2020 |

The revision history provided is for informational purposes only and is believed to be accurate.

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