

**MODEL:** CUSP-R80-15-2500-TH | **DESCRIPTION:** ULTRASONIC SENSOR**FEATURES**

- plastic can
- open type
- receiver
- sensitivity -75 dBV
- detectable range 15 meters

**SPECIFICATIONS**

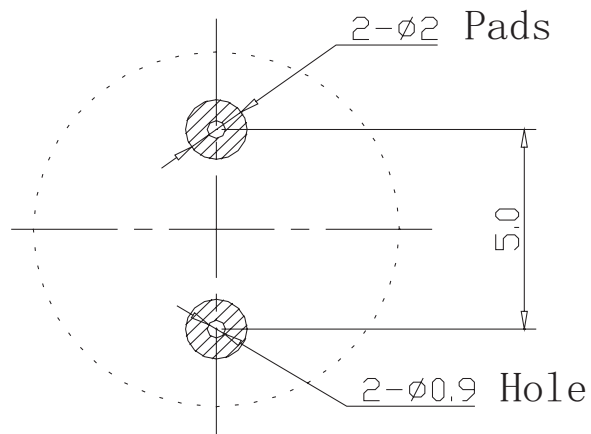
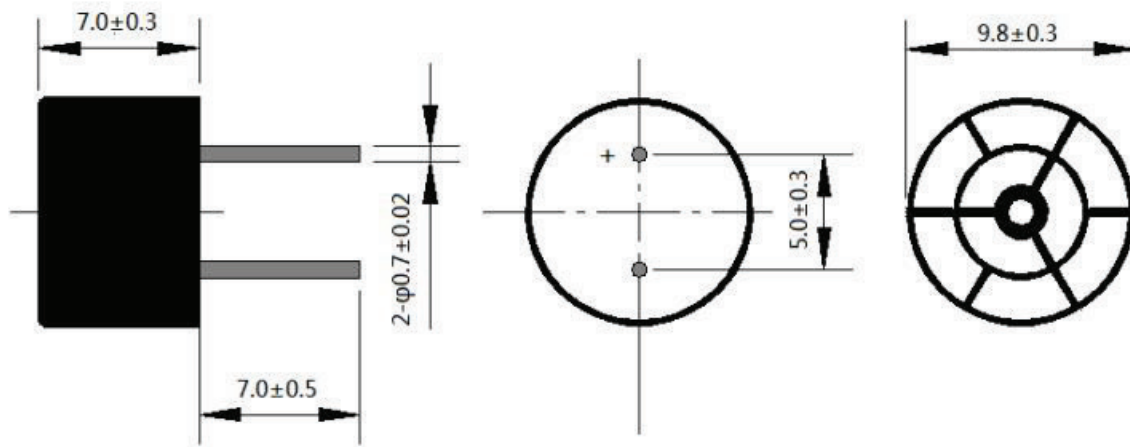
| parameter             | conditions/description       | min   | typ   | max   | units              |
|-----------------------|------------------------------|-------|-------|-------|--------------------|
| type                  | receiver                     |       |       |       |                    |
| operating voltage     | at 39 kHz                    |       |       | 80    | Vp-p               |
| frequency             |                              | 38    | 39    | 40    | kHz                |
| sensitivity           |                              | -75   |       |       | dBV/ $\mu$ Mbar    |
| directivity           |                              |       | 80    |       | degree             |
| capacitance           | at 1 kHz                     | 1,875 | 2,500 | 3,125 | pF                 |
| detectable range      |                              | 0.2   |       | 15    | m                  |
| dimensions            | $\varnothing 9.8 \times 7.0$ |       |       |       | mm                 |
| material              | ABS                          |       |       |       |                    |
| terminal              | pins (iron with tin plating) |       |       |       |                    |
| weight                |                              |       | 0.58  |       | g                  |
| operating temperature |                              | -20   |       | 80    | $^{\circ}\text{C}$ |
| RoHS                  | yes                          |       |       |       |                    |

**SOLDERABILITY**

| parameter      | conditions/description  | min | typ | max | units              |
|----------------|-------------------------|-----|-----|-----|--------------------|
| hand soldering | for $3 \pm 0.5$ seconds | 370 | 380 | 390 | $^{\circ}\text{C}$ |

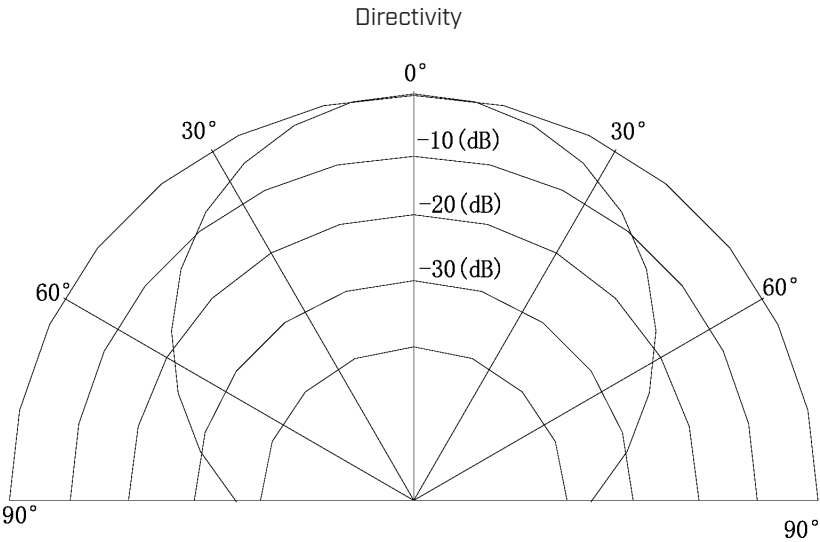
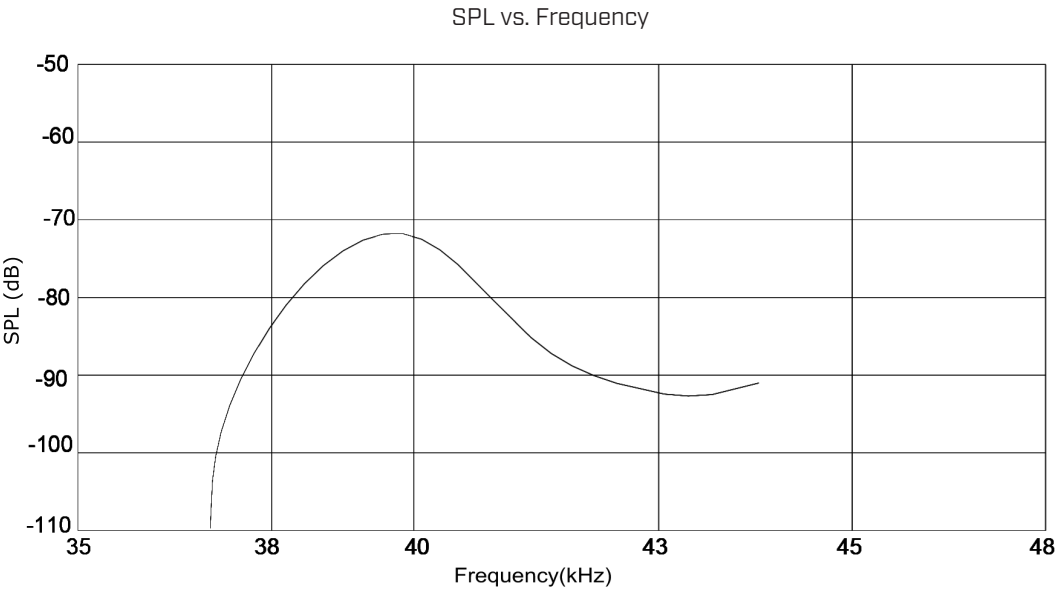
## MECHANICAL DRAWING

units: mm



Recommended PCB Layout  
Top View

BEAM PATTERNS



## PACKAGING

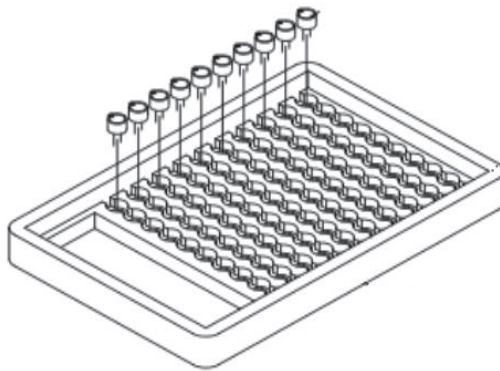
units: mm

Tray Size: 230 x 135 x 35 mm

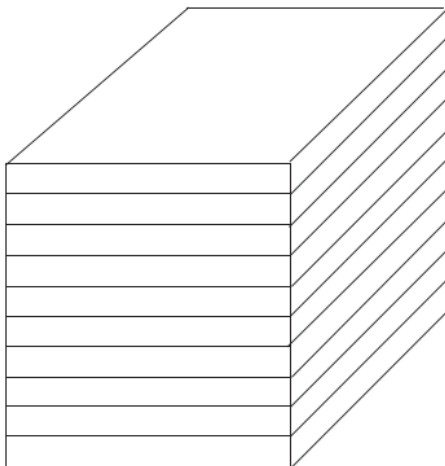
Tray QTY: 100 pcs per tray

Carton Size: 490 x 350 x 270 mm

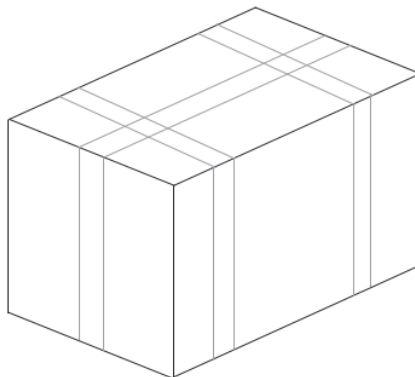
Carton QTY: 4,000 pcs per carton



100PCS/BOX  
BOX SIZE:23\*13.5\*3.5CM



10BOXES/STACK, TOTAL 1000PCS  
STACK SIZE:23\*13.5\*28CM



4000PCS/CARTON  
CARTON SIZE:49\*35\*27CM

REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 12/02/2020 |
| 1.01 | logo, datasheet style update      | 08/05/2022 |
| 1.02 | CUI Devices rebranded to Same Sky | 09/12/2024 |

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



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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