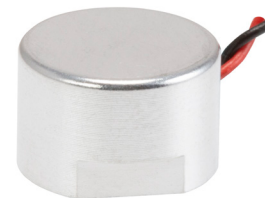


**MODEL:** CUSA-TR65-065-2200-W68 | **DESCRIPTION:** ULTRASONIC SENSOR**FEATURES**

- aluminum can
- IP68 rated
- combination unit: receiver & transmitter
- wire leads

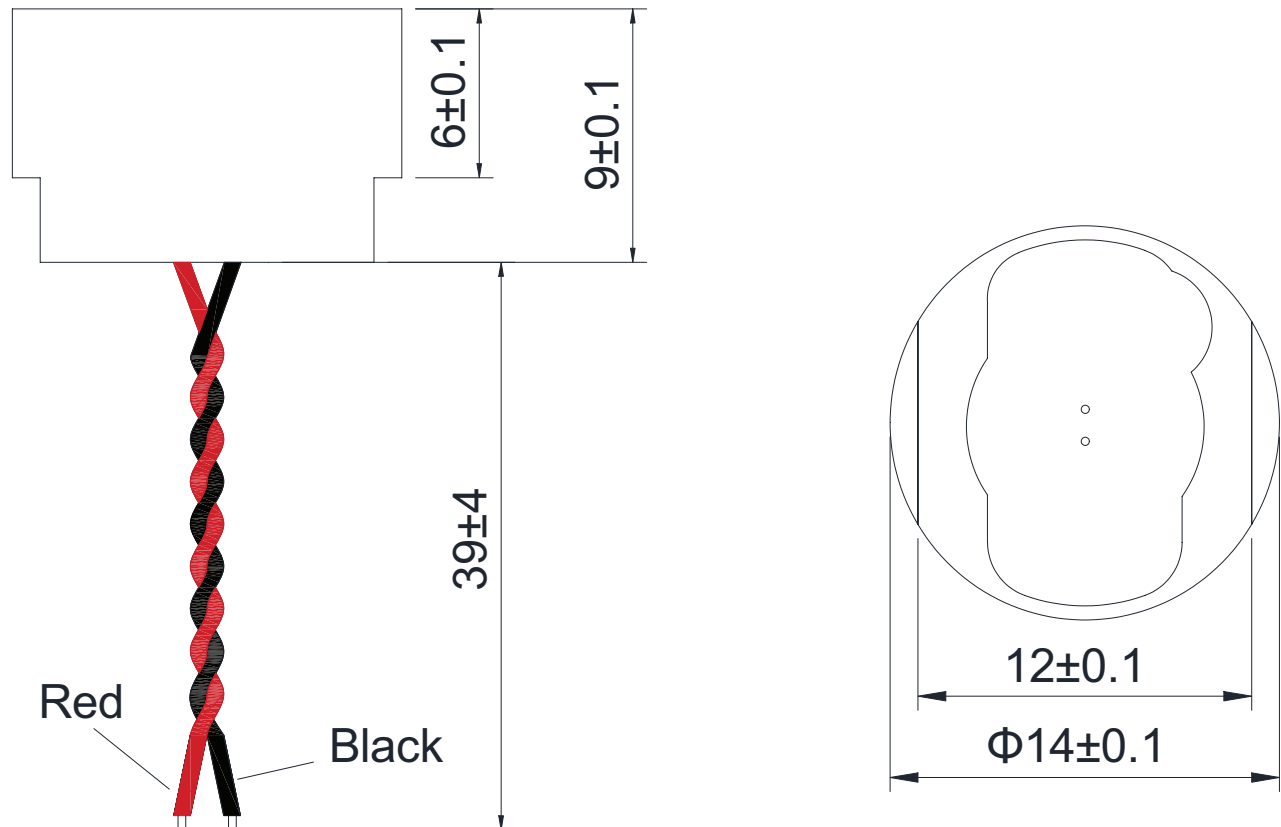
**SPECIFICATIONS**

| parameter             | conditions/description      | min   | typ   | max   | units              |
|-----------------------|-----------------------------|-------|-------|-------|--------------------|
| type                  | transmitter/receiver        |       |       |       |                    |
| operating voltage     | at 40 kHz                   |       |       | 150   | Vp-p               |
| frequency             |                             | 38.5  | 40    | 41.5  | kHz                |
| echo sensitivity      | at 1 m                      | 120   |       |       | mV                 |
| sound pressure level  | at 10 V, 30 cm, sine wave   | 90    |       |       | dB                 |
| directivity           | horizontal angle at -6 dB   | 105   | 120   | 135   | degree             |
|                       | vertical angle at -6 dB     | 50    | 65    | 80    | degree             |
| capacitance           | at 1 kHz                    | 1,760 | 2,200 | 2,640 | pF                 |
| detectable range      |                             | 0.4   |       | 6.5   | m                  |
| response time         |                             |       |       | 1.8   | ms                 |
| impedance             |                             |       |       | 3,000 | $\Omega$           |
| dimensions            | $\varnothing 14 \times 9.0$ |       |       |       | mm                 |
| material              | aluminum                    |       |       |       |                    |
| terminal              | wire leads                  |       |       |       |                    |
| weight                |                             |       | 2.92  |       | g                  |
| operating temperature |                             | -40   |       | 80    | $^{\circ}\text{C}$ |
| storage temperature   |                             | -40   |       | 85    | $^{\circ}\text{C}$ |
| RoHS                  | yes                         |       |       |       |                    |
| IP level              | IP68                        |       |       |       |                    |

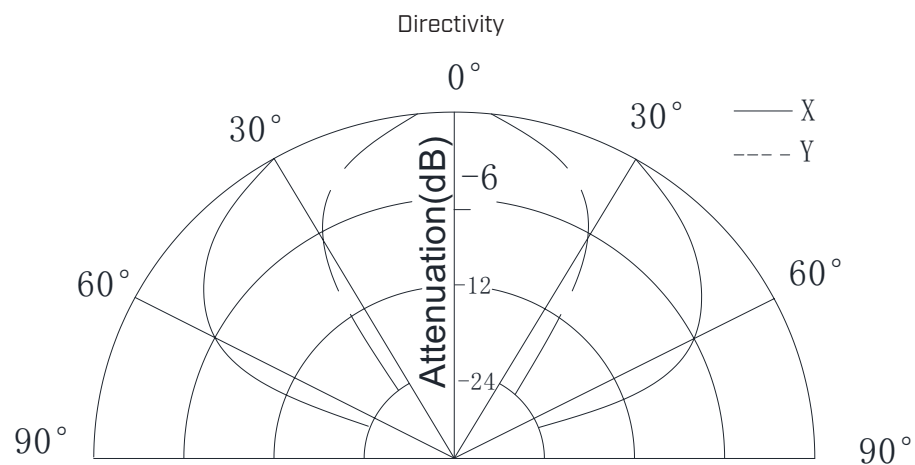
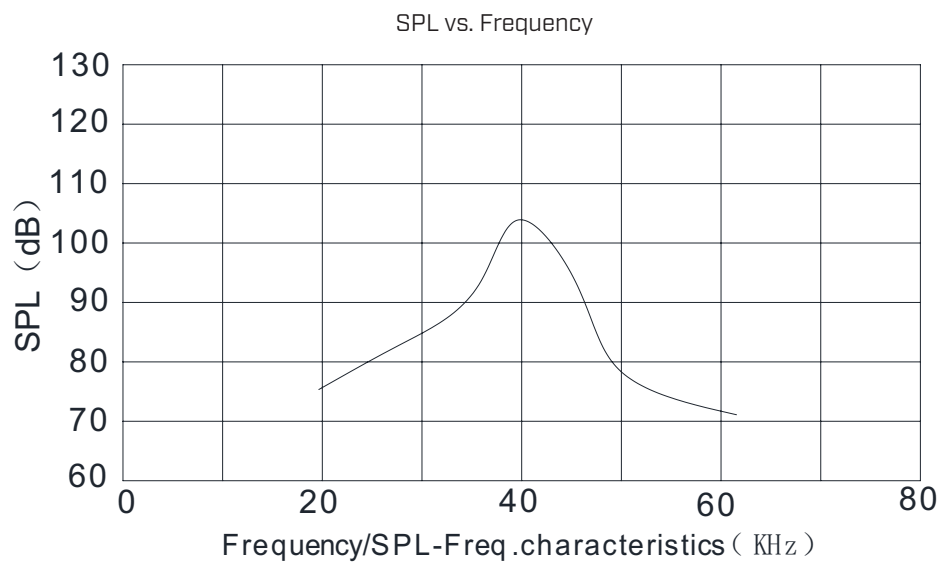
## MECHANICAL DRAWING

units: mm

wire: UL1571 30 AWG



## BEAM PATTERNS



## PACKAGING

units: mm

Tray Size: 235 x 135 x 30 mm

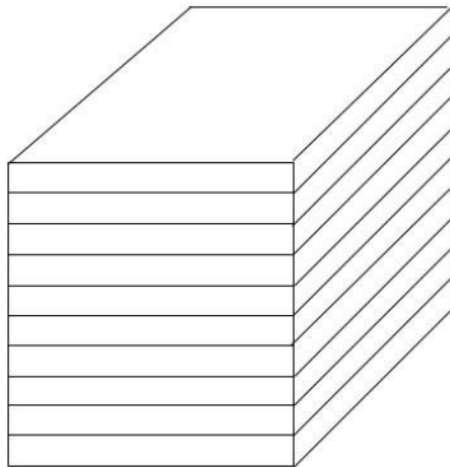
Tray QTY: 50 pcs per tray

Carton Size: 280 x 285 x 240 mm

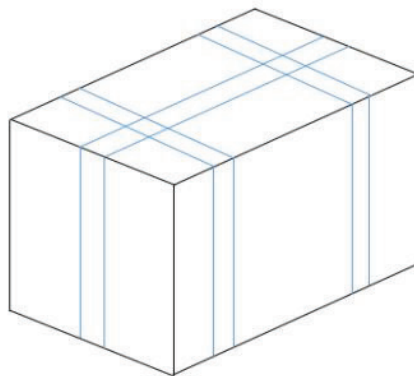
Carton QTY: 1,000 pcs per carton



50PCS/BOX  
BOX SIZE:23.5\*13.5\*3CM



10BOXES/STACK, TOTAL 500PCS  
STACK SIZE:23.5\*13.5\*31CM



1000PCS/CARTON  
CARTON SIZE:28\*28.5\*24CM

## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 05/17/2022 |
| 1.01 | logo, datasheet style update | 08/05/2022 |

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



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

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