

**MODEL:** CUSA-TR50-150-2500-WC68 | **DESCRIPTION:** ULTRASONIC SENSOR

**FEATURES**

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


**SPECIFICATIONS**

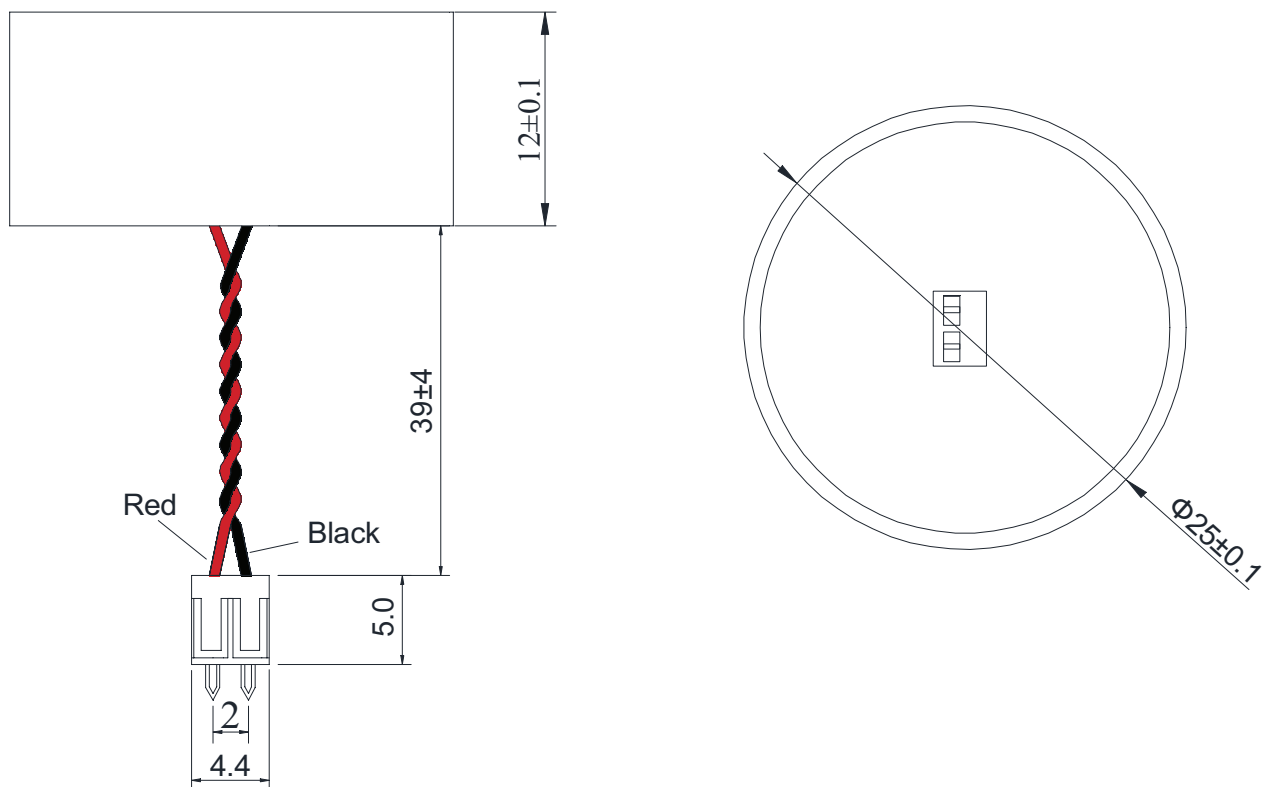
| parameter             | conditions/description     | min   | typ   | max   | units              |
|-----------------------|----------------------------|-------|-------|-------|--------------------|
| type                  | transmitter/receiver       |       |       |       |                    |
| operating voltage     | at 25 kHz                  |       |       | 150   | Vp-p               |
| frequency             |                            | 23.5  | 25    | 26.5  | kHz                |
| echo sensitivity      | at 1 m                     | 150   |       |       | mV                 |
| sound pressure level  | at 10 V, 30 cm, sine wave  | 110   |       |       | dB                 |
| directivity           | at -6 dB                   | 35    | 50    | 65    | degree             |
| capacitance           | at 1 kHz                   | 2,000 | 2,500 | 3,000 | pF                 |
| detectable range      |                            | 0.5   |       | 15.0  | m                  |
| response time         |                            |       |       | 2.0   | ms                 |
| impedance             |                            |       |       | 3,000 | $\Omega$           |
| dimensions            | $\varnothing 25 \times 12$ |       |       |       | mm                 |
| material              | aluminum                   |       |       |       |                    |
| terminal              | wire leads with connetcor  |       |       |       |                    |
| weight                |                            |       | 7.52  |       | g                  |
| operating temperature |                            | -40   |       | 80    | $^{\circ}\text{C}$ |
| storage temperature   |                            | -40   |       | 85    | $^{\circ}\text{C}$ |
| RoHS                  | yes                        |       |       |       |                    |
| IP level              | IP68                       |       |       |       |                    |

## MECHANICAL DRAWING

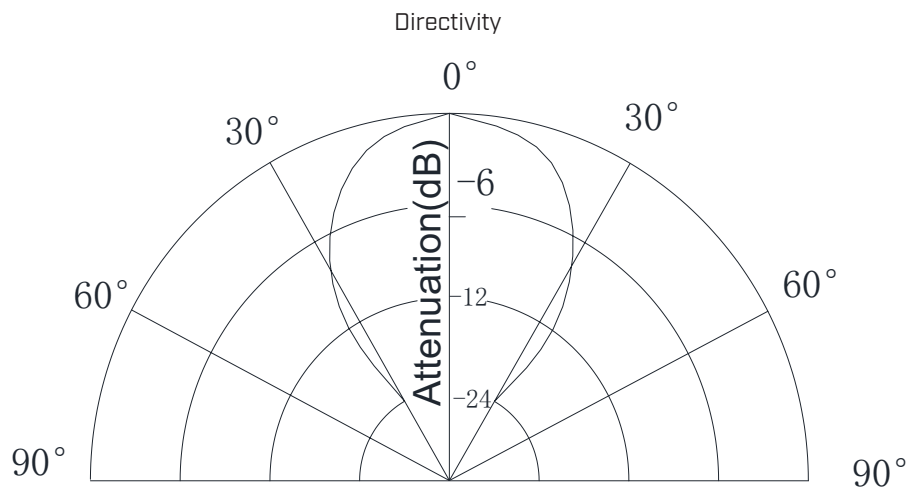
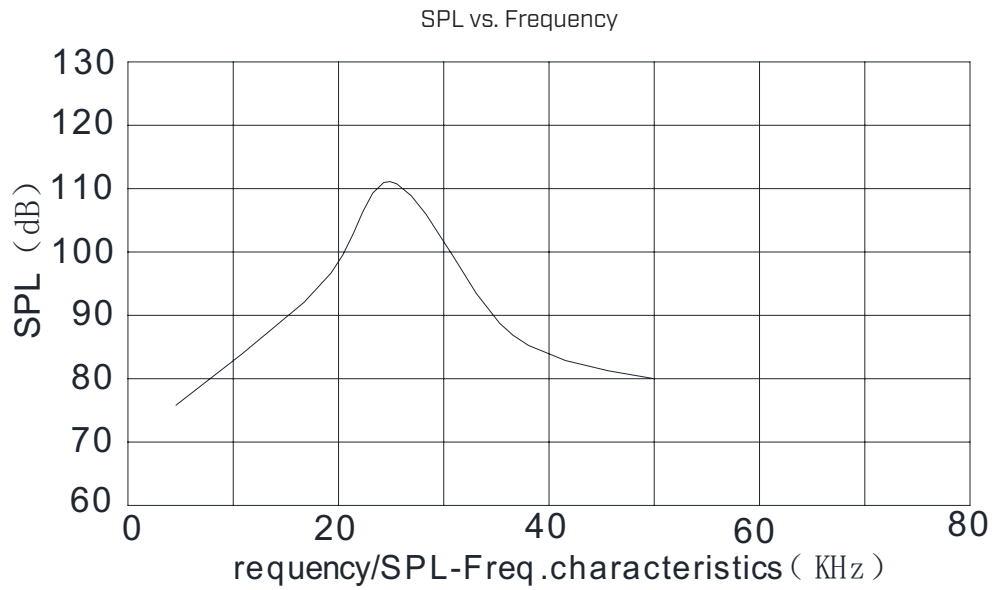
units: mm

wire: UL1571 30 AWG

connector: JAM P/N JB20-02HG



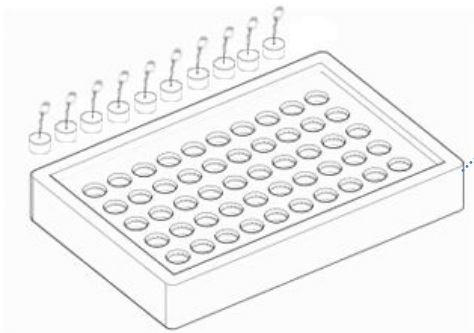
## BEAM PATTERNS



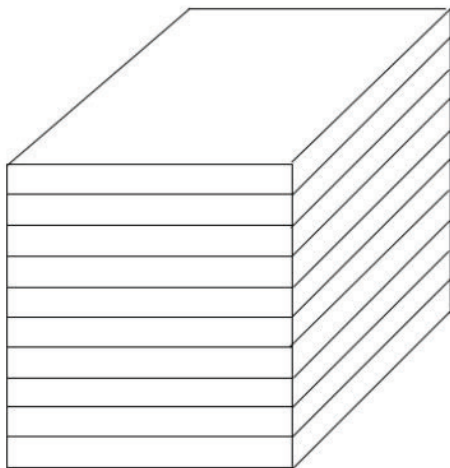
## PACKAGING

units: mm

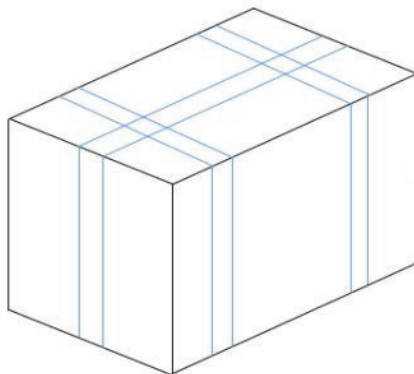
Tray Size: 350 x 195 x 35 mm  
Tray QTY: 50 pcs per tray  
Carton Size: 370 x 370 x 370 mm  
Carton QTY: 1,000 pcs per carton



50PCS/BOX  
BOX SIZE:35\*19.5\*3.5CM



10BOXES/STACK,TATAL 500PCS  
STACK SIZE:35\*19.5\*35CM



1000PCS/CARTON  
CARTON SIZE:37\*37\*37CM

## 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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