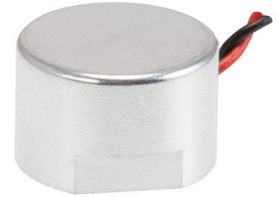


**MODEL:** CUSA-TR50-05-2000-WC68 | **DESCRIPTION:** ULTRASONIC SENSOR**FEATURES**

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

**SPECIFICATIONS**

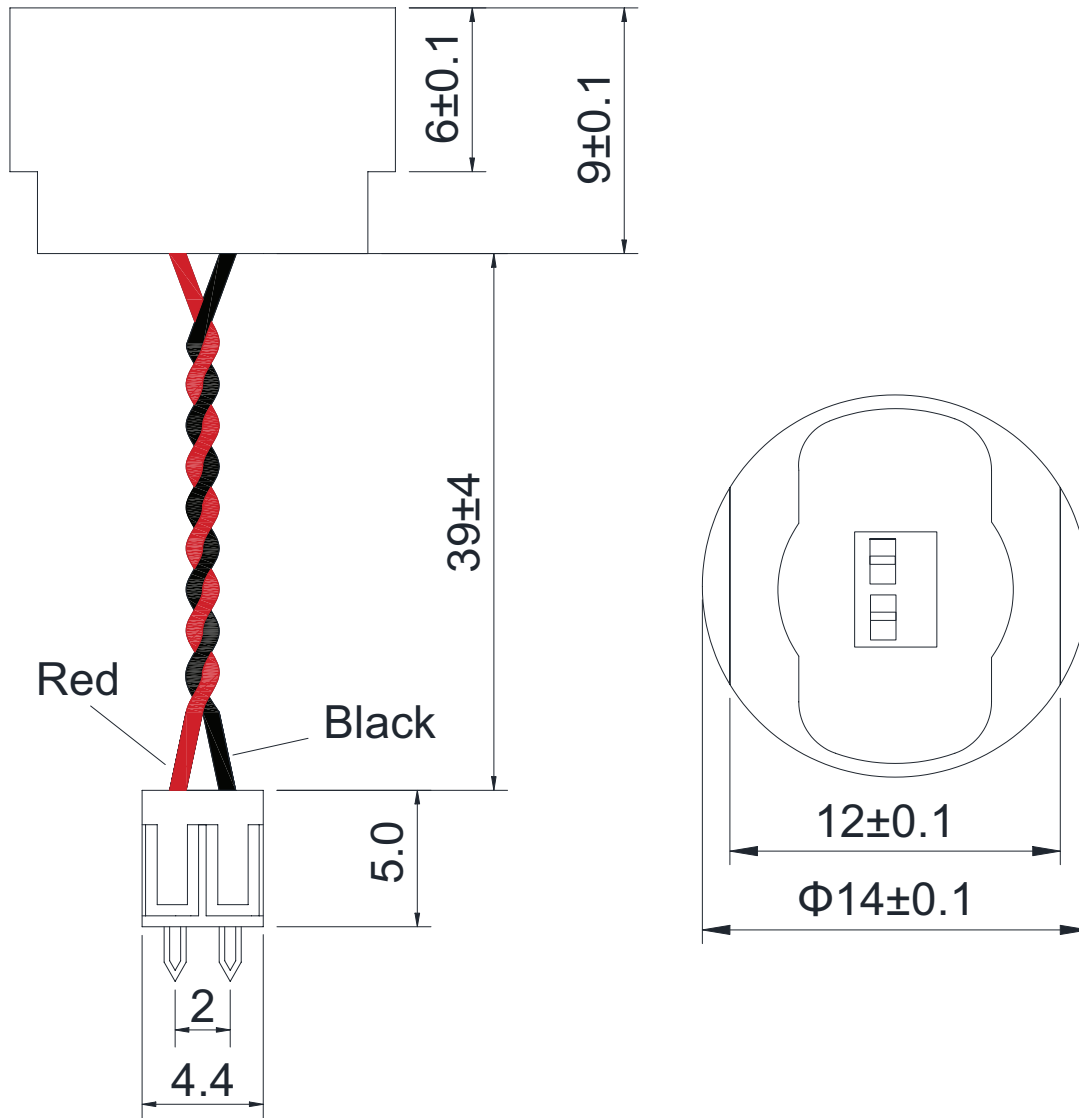
| parameter             | conditions/description                               | min      | typ      | max       | units            |
|-----------------------|--|----------|----------|-----------|------------------|
| type                  | transmitter/receiver                                 |          |          |           |                  |
| operating voltage     | at 58 kHz  |          |          | 150       | Vp-p             |
| frequency             |  | 56.5     | 58       | 59.5      | kHz              |
| echo sensitivity      | at 1 m   | 90       |          |           | mV               |
| sound pressure level  | at 10 V, 30 cm, sine wave                            | 85       |          |           | dB               |
| directivity           | horizontal angle at -6 dB<br>vertical angle at -6 dB | 80<br>35 | 95<br>50 | 110<br>65 | degree<br>degree |
| capacitance           | at 1 kHz   | 1,600    | 2,000    | 2,400     | pF               |
| detectable range      |  | 0.25     |          | 5.0       | m                |
| response time         |  |          |          | 1.0       | ms               |
| impedance             |  |          |          | 3,000     | $\Omega$         |
| dimensions            | $\varnothing$ 14 x 9.0                               |          |          |           | mm               |
| material              | aluminum   |          |          |           |                  |
| terminal              | wire leads with connetcor                            |          |          |           |                  |
| weight                |  |          | 2.96     |           | g                |
| operating temperature |  | -40      |          | 80        | $^{\circ}$ C     |
| storage temperature   |  | -40      |          | 85        | $^{\circ}$ C     |
| RoHS                  | yes  |          |          |           |                  |
| IP level              | IP68   |          |          |           |                  |

## MECHANICAL DRAWING

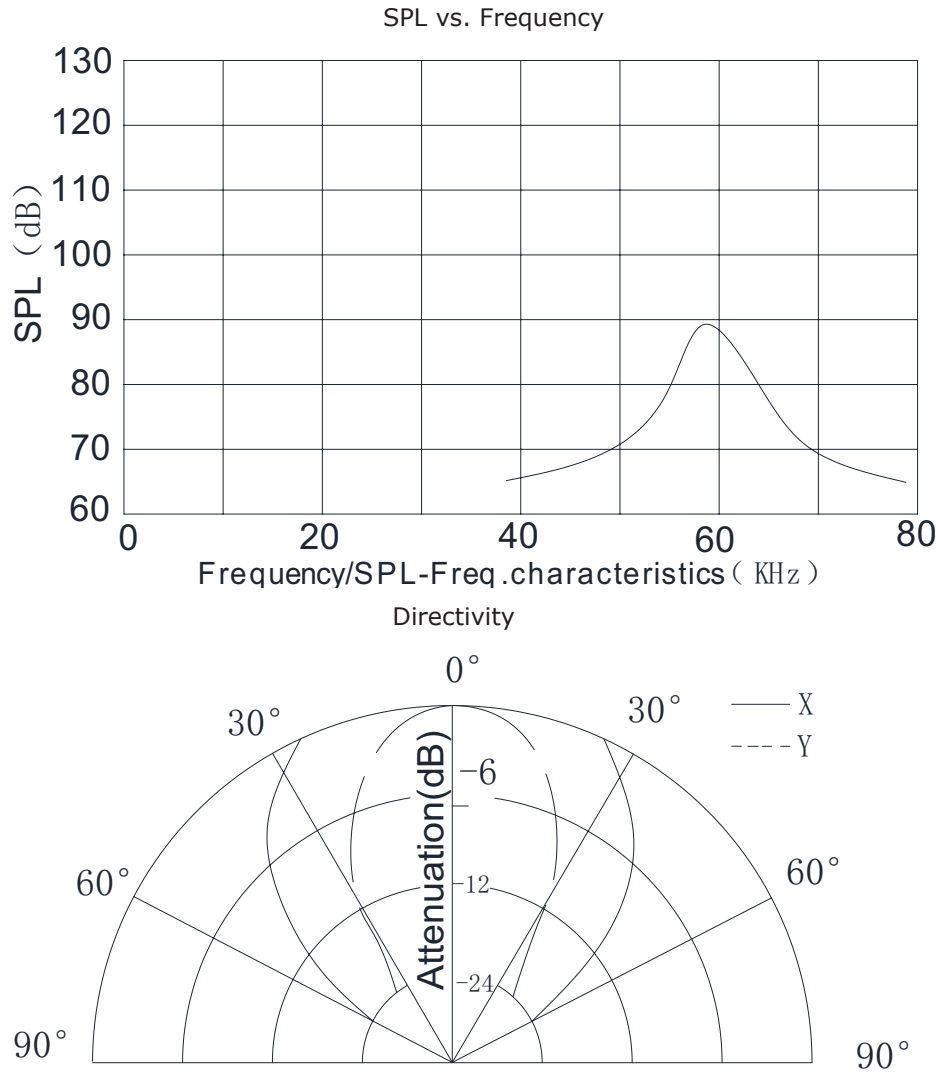
units: mm

wire: UL1571 30 AWG

connector: JAM P/N JB20-02HG



## BEAM PATTERNS



## PACKAGING

units: mm

Tray Size: 235 x 135 x 30 mm

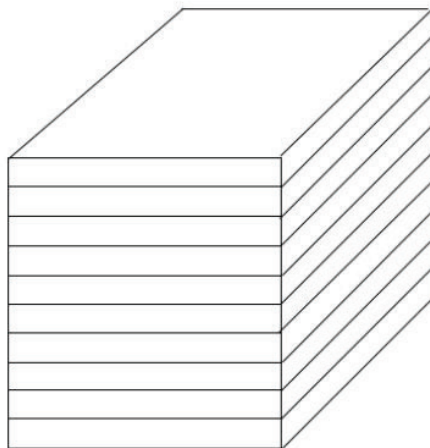
Tray QTY: 50 pcs per tray

Carton Size: 280 x 285 x 240 mm

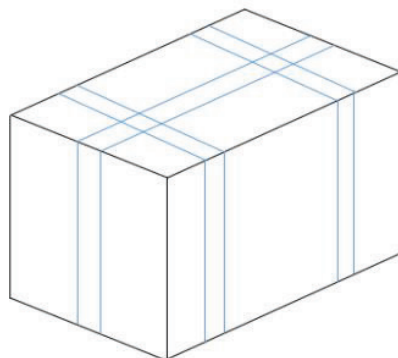
Carton QTY: 1,000 pcs per carton



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

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| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 05/17/2022 |

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

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