

**MODEL:** CUSA-TR07-008-500-TH67 | **DESCRIPTION:** ULTRASONIC SENSOR**FEATURES**

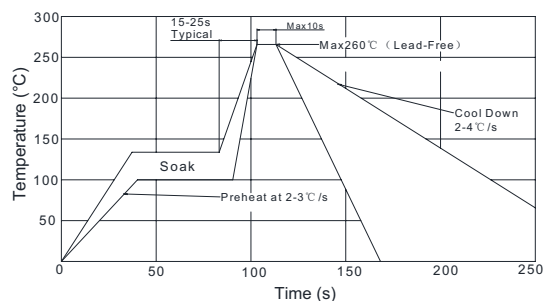
- aluminum can
- IP67 rated
- combination unit: receiver & transmitter
- high frequency

**SPECIFICATIONS**

| parameter             | conditions/description        | min  | typ | max  | units  |
|-----------------------|-------------------------------|------|-----|------|--------|
| type                  | transmitter/receiver          |      |     |      |        |
| operating voltage     | at 400 kHz                    |      |     | 400  | Vp-p   |
| frequency             |                               | 385  | 400 | 415  | kHz    |
| echo sensitivity      | at 0.2 m                      | 200  |     |      | mV     |
| directivity           | at -6 dB                      | 5    | 7   | 9    | degree |
| capacitance           | at 1 kHz                      | 350  | 500 | 650  | pF     |
| detectable range      |                               | 0.05 |     | 0.8  | m      |
| response time         | at 200 Vp-p, 400 kHz          |      |     | 0.29 | ms     |
| dimensions            | Ø11 x 11                      |      |     |      | mm     |
| material              | aluminum                      |      |     |      |        |
| terminal              | pins (brass with tin plating) |      |     |      |        |
| weight                |                               |      | 2.4 |      | g      |
| operating temperature |                               | -40  |     | 80   | °C     |
| storage temperature   |                               | -40  |     | 85   | °C     |
| RoHS                  | yes                           |      |     |      |        |
| IP level              | IP67                          |      |     |      |        |

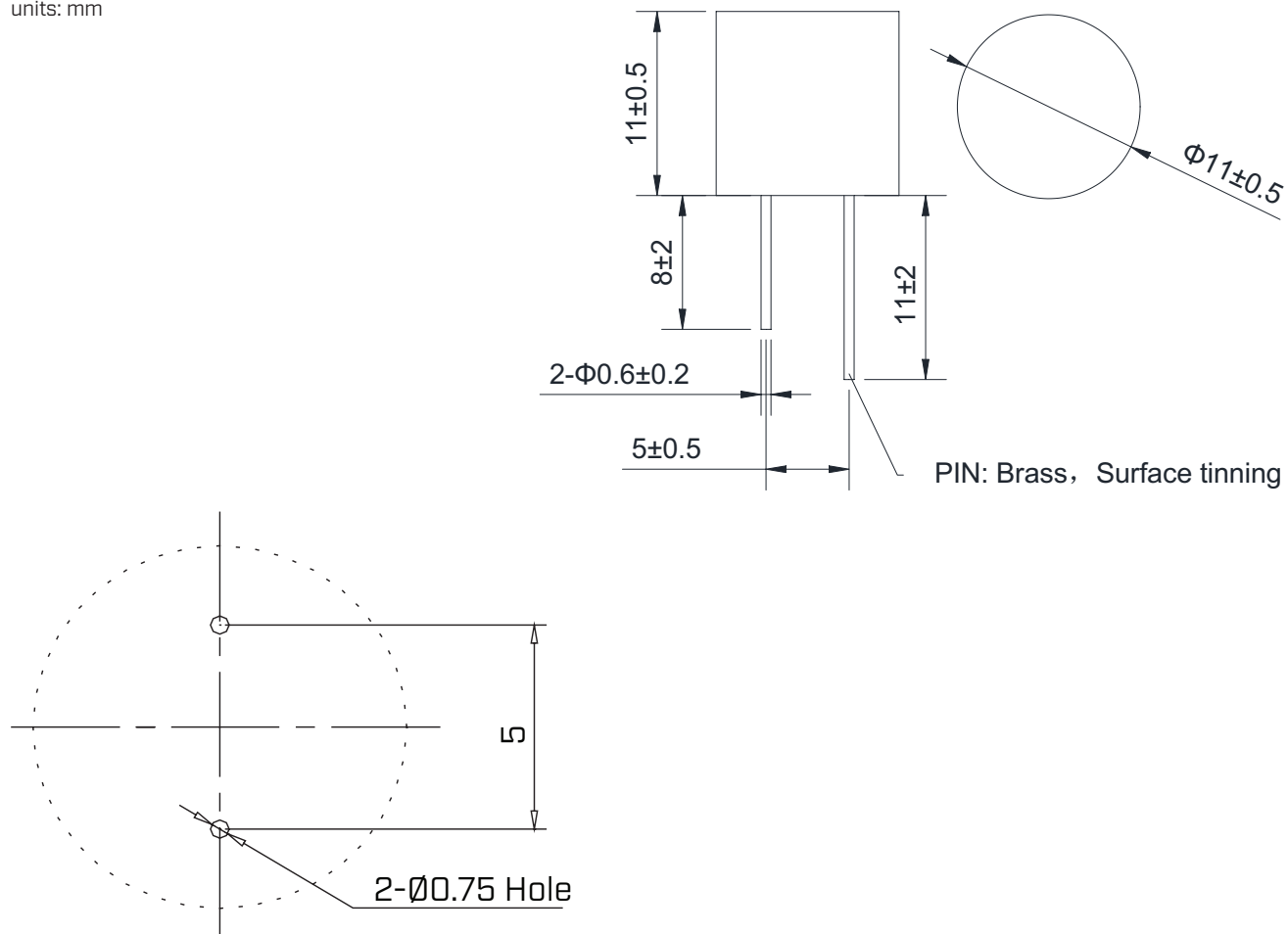
**SOLDERABILITY**

| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| wave soldering |                        |     |     | 260 | °C    |



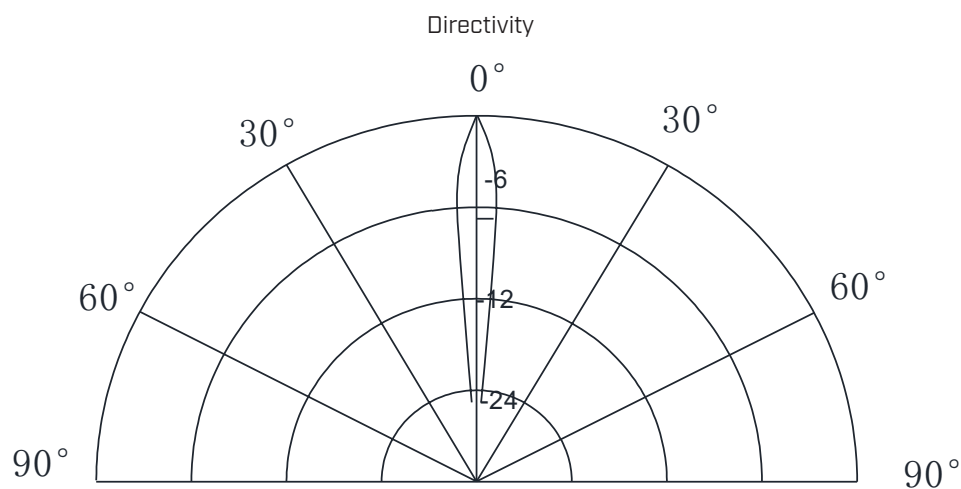
## MECHANICAL DRAWING

units: mm



Recommended PCB Layout  
Top View

## BEAM PATTERNS



## PACKAGING

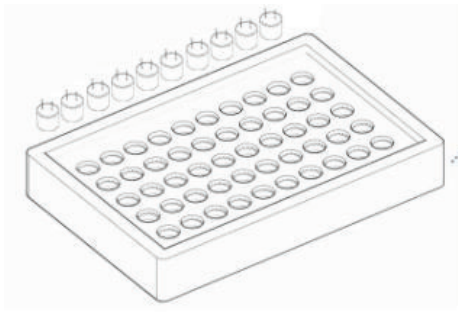
units: mm

Tray Size: 235 x 135 x 30 mm

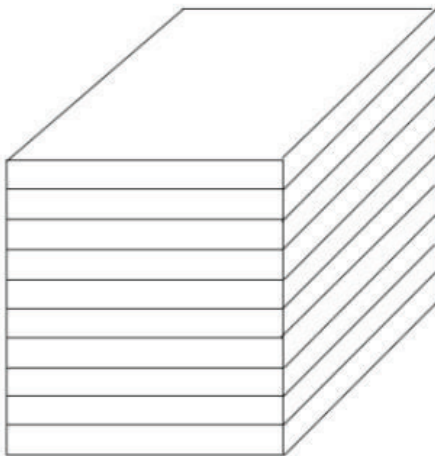
Tray QTY: 50 pcs per tray

Carton Size: 280 x 285 x 240 mm

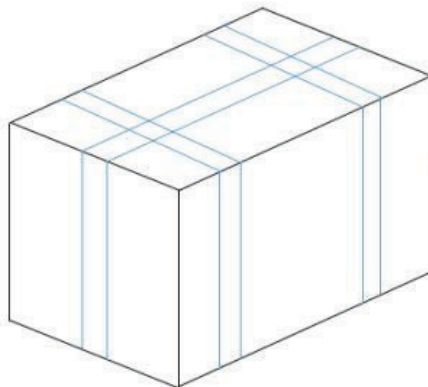
Carton QTY: 1,000 pcs per carton



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                   | 05/24/2022 |
| 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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