

**MODEL:** CUSA-R75-120-2200-TH | **DESCRIPTION:** ULTRASONIC SENSOR**FEATURES**

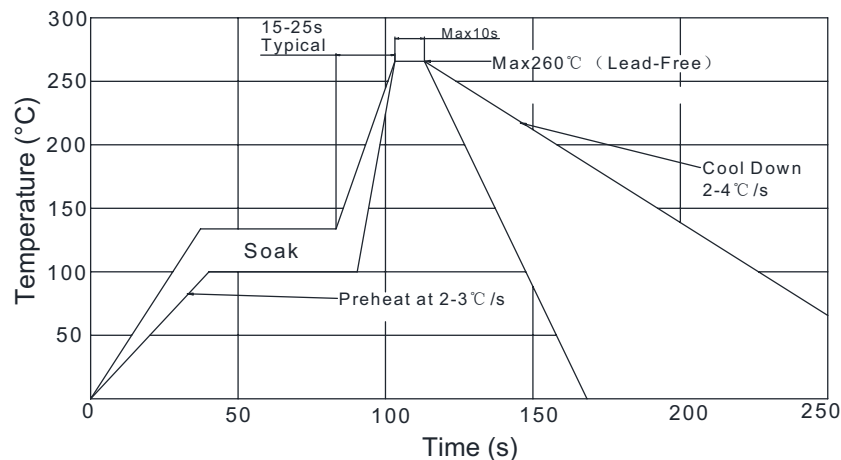
- aluminum housing
- receiver
- open type
- through hole

**SPECIFICATIONS**

| parameter             | conditions/description        | min   | typ   | max   | units              |
|-----------------------|-------------------------------|-------|-------|-------|--------------------|
| type                  | receiver                      |       |       |       |                    |
| operating voltage     |                               |       |       | 160   | Vp-p               |
| frequency             |                               | 28    | 29    | 30    | kHz                |
| sensitivity           |                               | -75   |       |       | dBV/ $\mu$ bar     |
| directivity           | at -6 dB                      | 60    | 75    | 90    | degree             |
| capacitance           | at 1 kHz                      | 1,650 | 2,200 | 2,750 | pF                 |
| detectable range      |                               | 0     |       | 12    | m                  |
| dimensions            | $\varnothing 12.5 \times 9.5$ |       |       |       | mm                 |
| material              | aluminum                      |       |       |       |                    |
| terminal              | pins (brass with tin plating) |       |       |       |                    |
| weight                |                               |       | 1.82  |       | g                  |
| operating temperature |                               | -20   |       | 80    | $^{\circ}\text{C}$ |
| storage temperature   |                               | -20   |       | 80    | $^{\circ}\text{C}$ |
| RoHS                  | yes                           |       |       |       |                    |

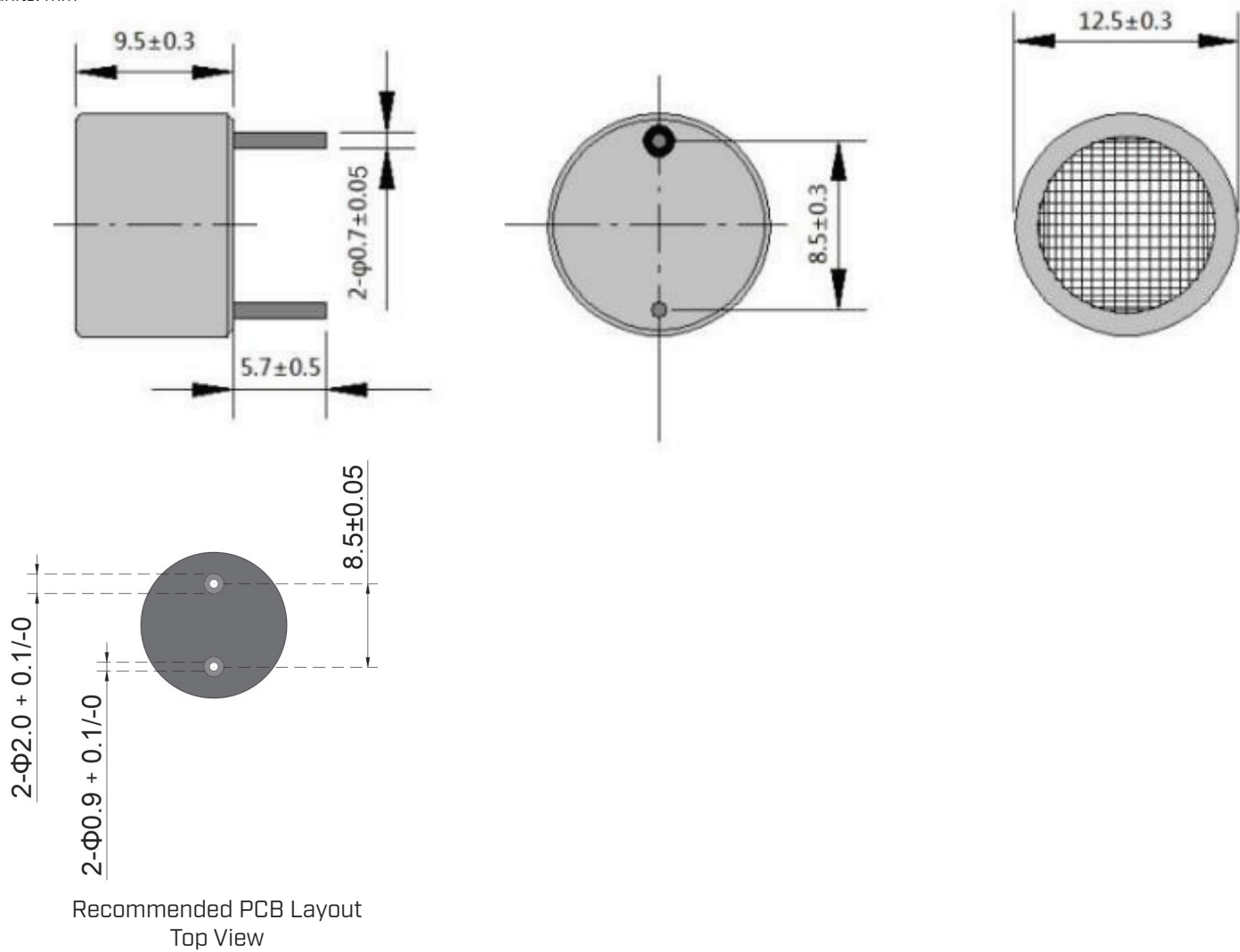
**SOLDERABILITY**

| parameter      | conditions/description | min | typ | max | units              |
|----------------|------------------------|-----|-----|-----|--------------------|
| wave soldering |                        |     |     | 260 | $^{\circ}\text{C}$ |



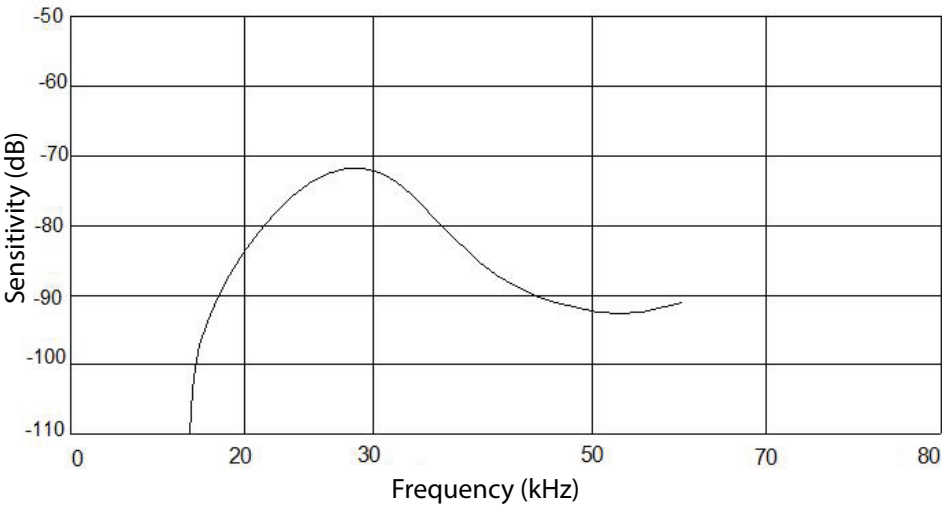
## MECHANICAL DRAWING

units: mm

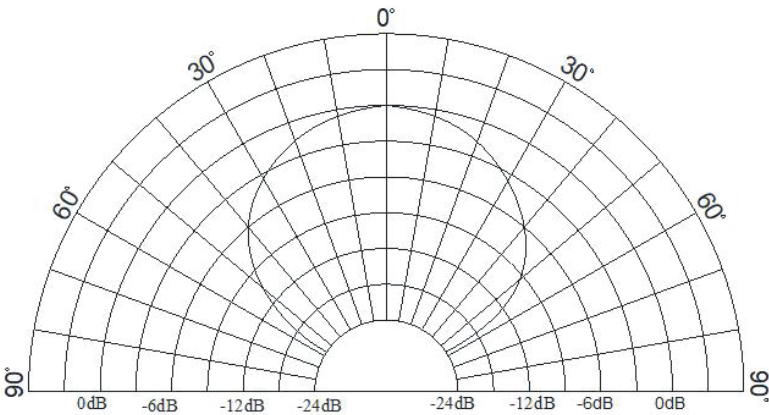


BEAM PATTERNS

Sensitivity vs. Frequency



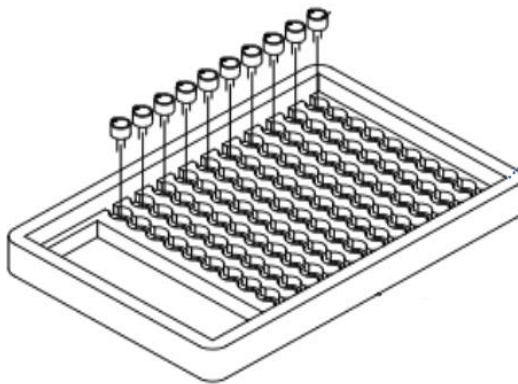
Directivity



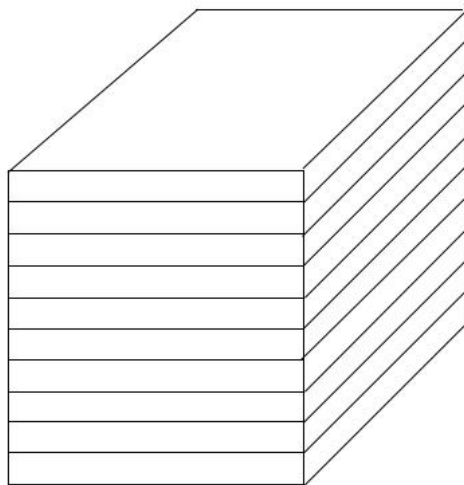
## PACKAGING

units: mm

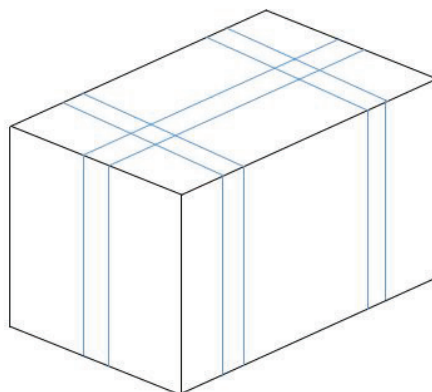
Tray Size: 16 x 24 x 3 cm  
Tray QTY: 100 pcs per tray  
Carton Size: 49 x 34.5 x 27 cm  
Carton QTY: 4,000 pcs per carton



100PCS/BOX  
BOX SIZE:16\*24\*3CM



10BOXES/STACK, TOTAL 1000PCS  
STACK SIZE:16\*24\*24CM



4000PCS/CARTON  
CARTON SIZE:49\*34.5\*27CM

Net Weight:7.28KG  
Gross Weight:7.98KG

REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 08/08/2024 |
| 1.01 | 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.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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