

**MODEL:** CUSA-R80-120-2200-TH | **DESCRIPTION:** ULTRASONIC SENSOR**FEATURES**

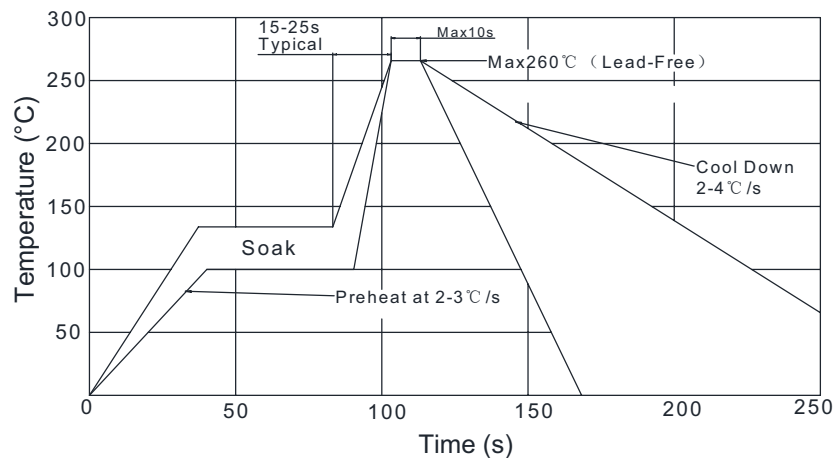
- aluminum housing
- receiver
- open type
- through hole

**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                      | 65    | 80    | 95    | degree         |
| capacitance           | at 1 kHz                      | 1,650 | 2,200 | 2,750 | pF             |
| detectable range      |                               | 0     |       | 12    | m              |
| dimensions            | $\varnothing 9.8 \times 7.0$  |       |       |       | mm             |
| material              | aluminum                      |       |       |       |                |
| terminal              | pins (brass with tin plating) |       |       |       |                |
| weight                |                               |       | 0.94  |       | g              |
| operating temperature |                               | -20   |       | 80    | $^{\circ}$ C   |
| storage temperature   |                               | -20   |       | 80    | $^{\circ}$ C   |
| RoHS                  | yes                           |       |       |       |                |

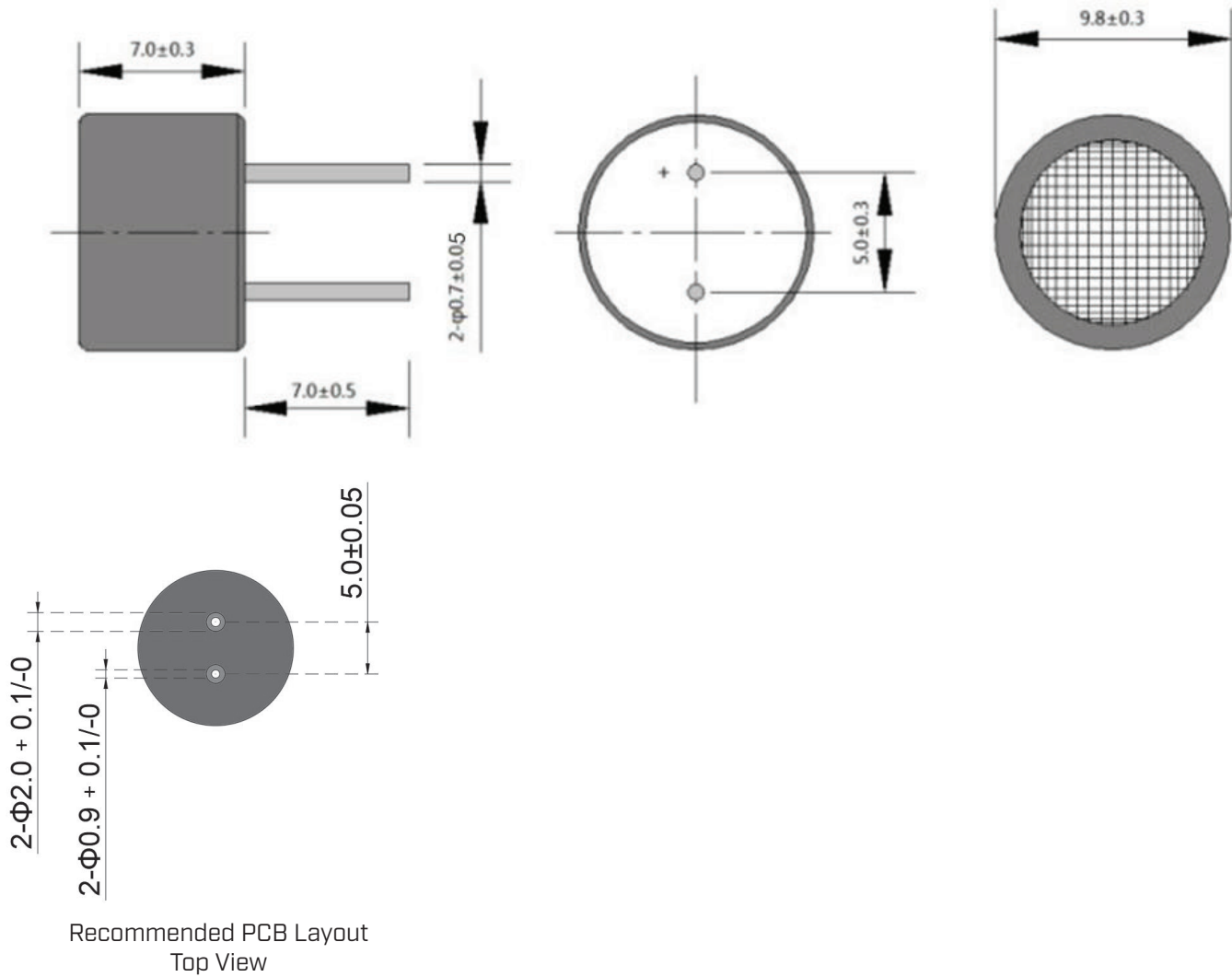
**SOLDERABILITY**

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



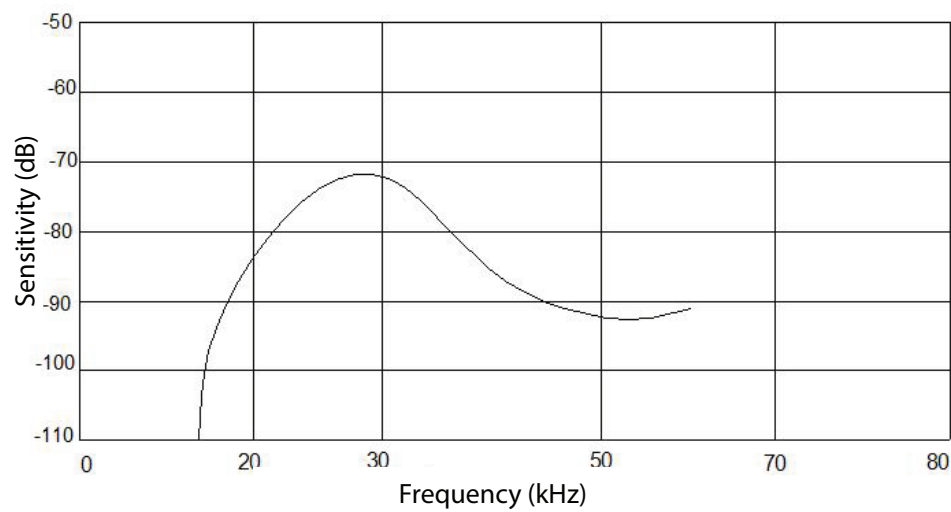
## MECHANICAL DRAWING

units: mm

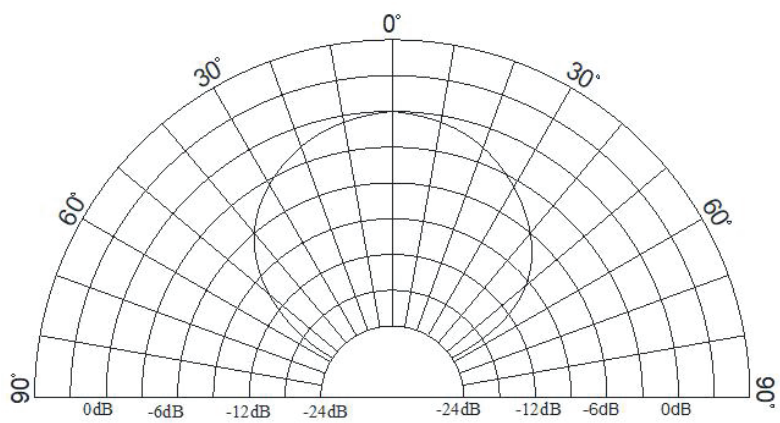


BEAM PATTERNS

Sensitivity vs. Frequency



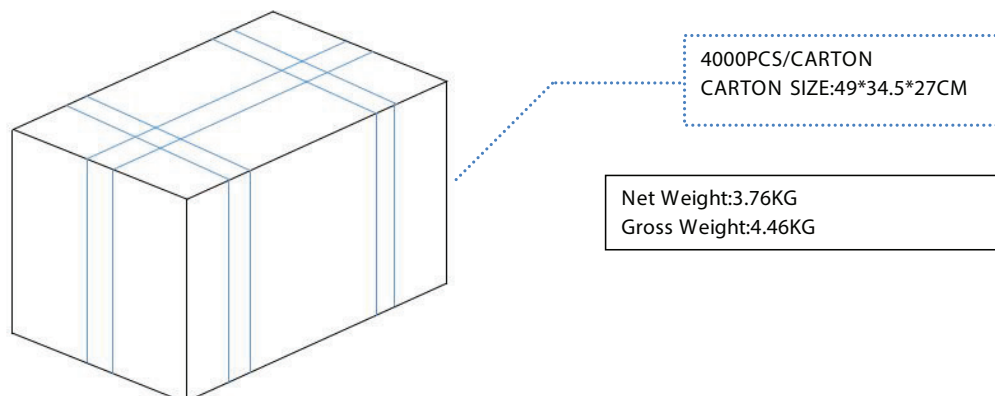
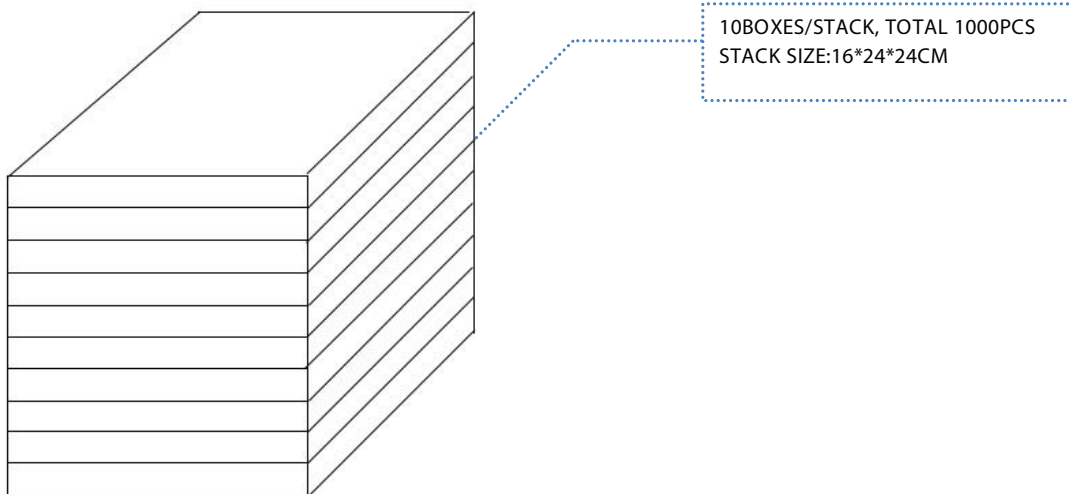
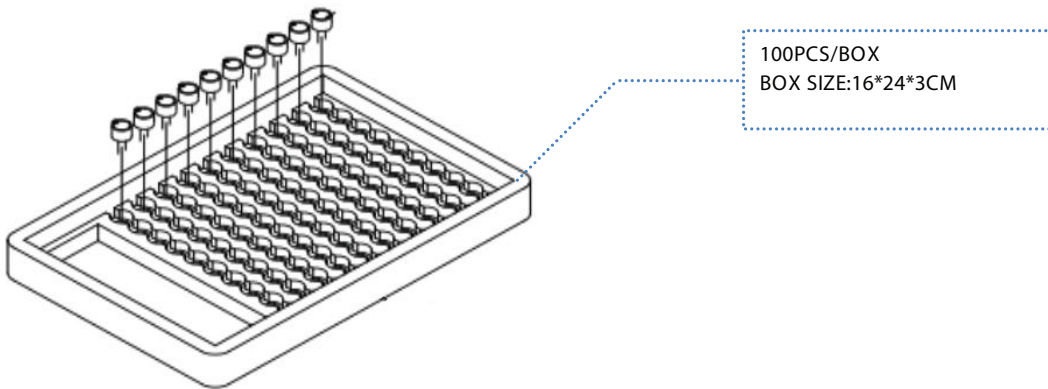
Directivity



## PACKAGING

units: cm

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



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.

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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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