

**MODEL:** CUSA-T80-12-2200-TH | **DESCRIPTION:** ULTRASONIC SENSOR**FEATURES**

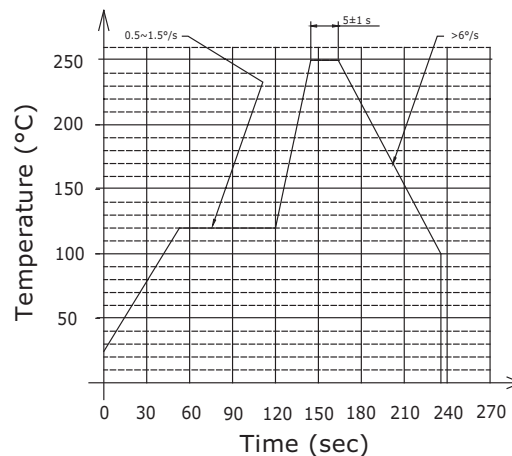
- aluminium can
- open type
- transmitter
- SPL 113 dB
- detectable range 12 meters

**SPECIFICATIONS**

| parameter             | conditions/description       | min   | typ   | max   | units  |
|-----------------------|------------------------------|-------|-------|-------|--------|
| type                  | transmitter                  |       |       |       |        |
| operating voltage     | at 23 kHz                    |       |       | 150   | Vp-p   |
| frequency             |                              | 22    | 23    | 24    | kHz    |
| sound pressure level  | at 10 V, 30 cm, sine wave    | 113   |       |       | dB     |
| directivity           |                              |       | 80    |       | degree |
| capacitance           | at 1 kHz                     | 1,650 | 2,200 | 2,750 | pF     |
| detectable range      |                              | 0.2   |       | 12    | m      |
| dimensions            | Ø16.0 x 12.0                 |       |       |       | mm     |
| material              | aluminum                     |       |       |       |        |
| terminal              | pins (iron with tin plating) |       |       |       |        |
| weight                |                              |       | 2.31  |       | g      |
| operating temperature |                              | -30   |       | 85    | °C     |
| RoHS                  | yes                          |       |       |       |        |

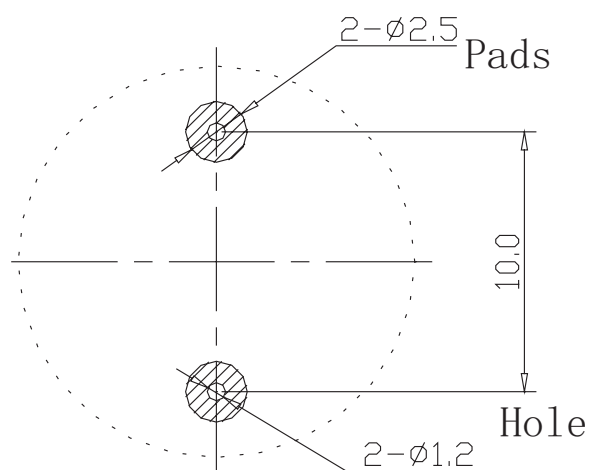
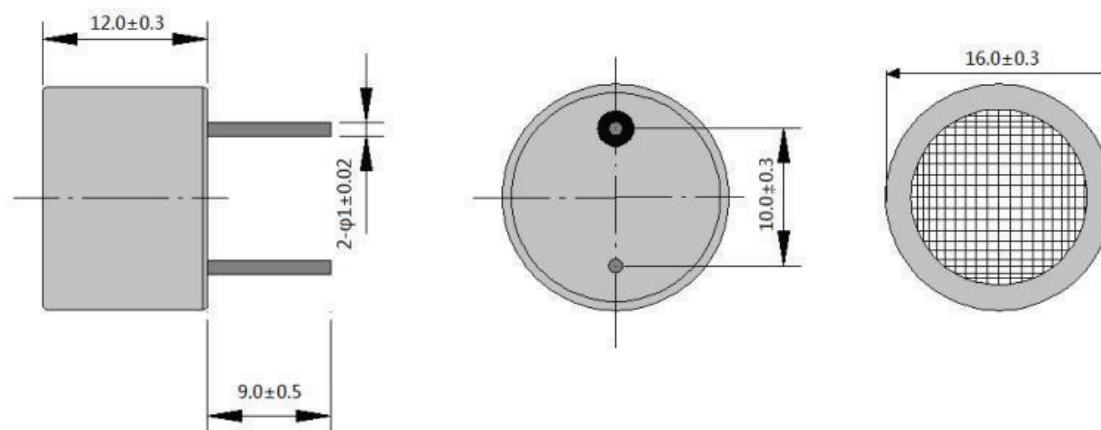
**SOLDERABILITY**

| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| wave soldering |                        |     |     | 250 | °C    |



## MECHANICAL DRAWING

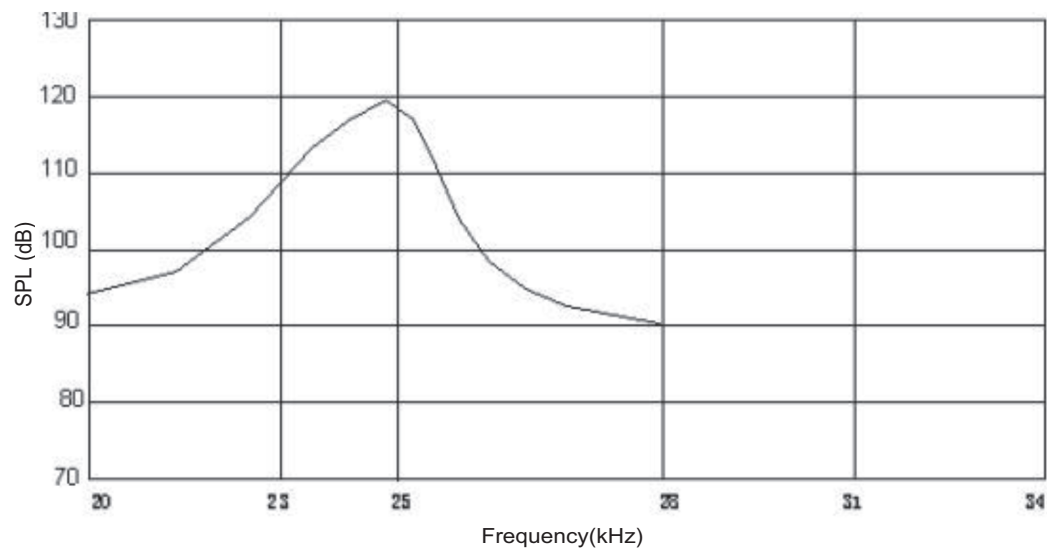
units: mm



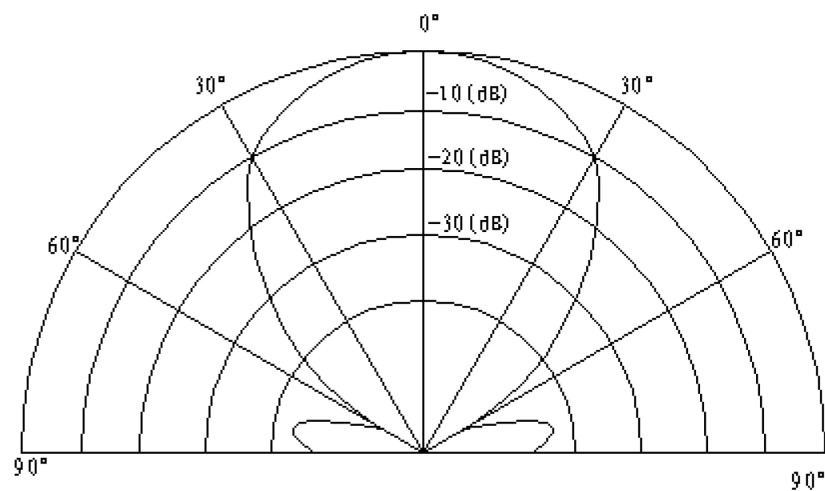
Recommended PCB Layout  
Top View

## BEAM PATTERNS

SPL vs. Frequency



Directivity



## PACKAGING

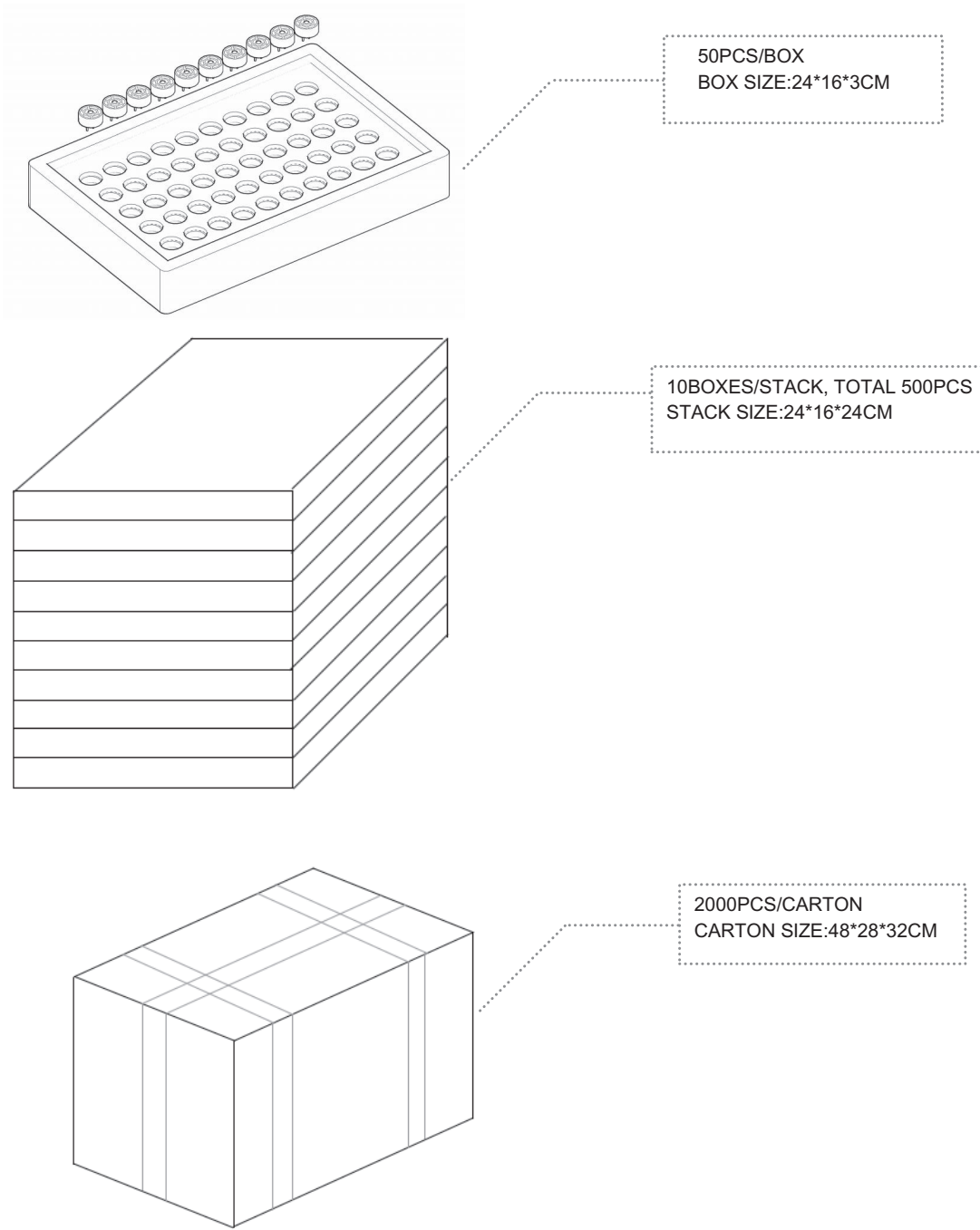
units: mm

Tray Size: 240 x 160 x 30 mm

Tray QTY: 50 pcs per tray

Carton Size: 480 x 280 x 320 mm

Carton QTY: 2,000 pcs per carton



REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 12/02/2020 |

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

CUI DEVICES

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