

MODEL: CUSA-TR65-065-2200-TH68 | **DESCRIPTION:** ULTRASONIC SENSOR

FEATURES

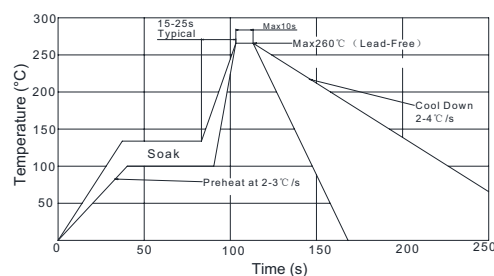
- aluminum can
- IP68 rated
- combination unit: receiver & transmitter
- through hole


SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|-----------------------|--|-----------|-----------|-----------|--------------------|
| type | transmitter/receiver | | | | |
| operating voltage | at 40 kHz | | | 150 | Vp-p |
| frequency | | 38.5 | 40 | 41.5 | kHz |
| echo sensitivity | at 1 m | 120 | | | mV |
| sound pressure level | at 10 V, 30 cm, sine wave | 100 | | | dB |
| directivity | horizontal angle at -6 dB vertical angle at -6 dB | 105 50 | 120 65 | 135 80 | degree degree |
| capacitance | at 1 kHz | 1,760 | 2,200 | 2,640 | pF |
| detectable range | | 0.4 | | 6.5 | m |
| response time | | | | 1.8 | ms |
| impedance | | | | 3,000 | Ω |
| dimensions | $\varnothing 14 \times 9.0$ | | | | mm |
| material | aluminum | | | | |
| terminal | pins (brass with tin plating) | | | | |
| weight | | | 2.92 | | g |
| operating temperature | | -40 | | 80 | $^{\circ}\text{C}$ |
| storage temperature | | -40 | | 85 | $^{\circ}\text{C}$ |
| RoHS | yes | | | | |
| IP level | IP68 | | | | |

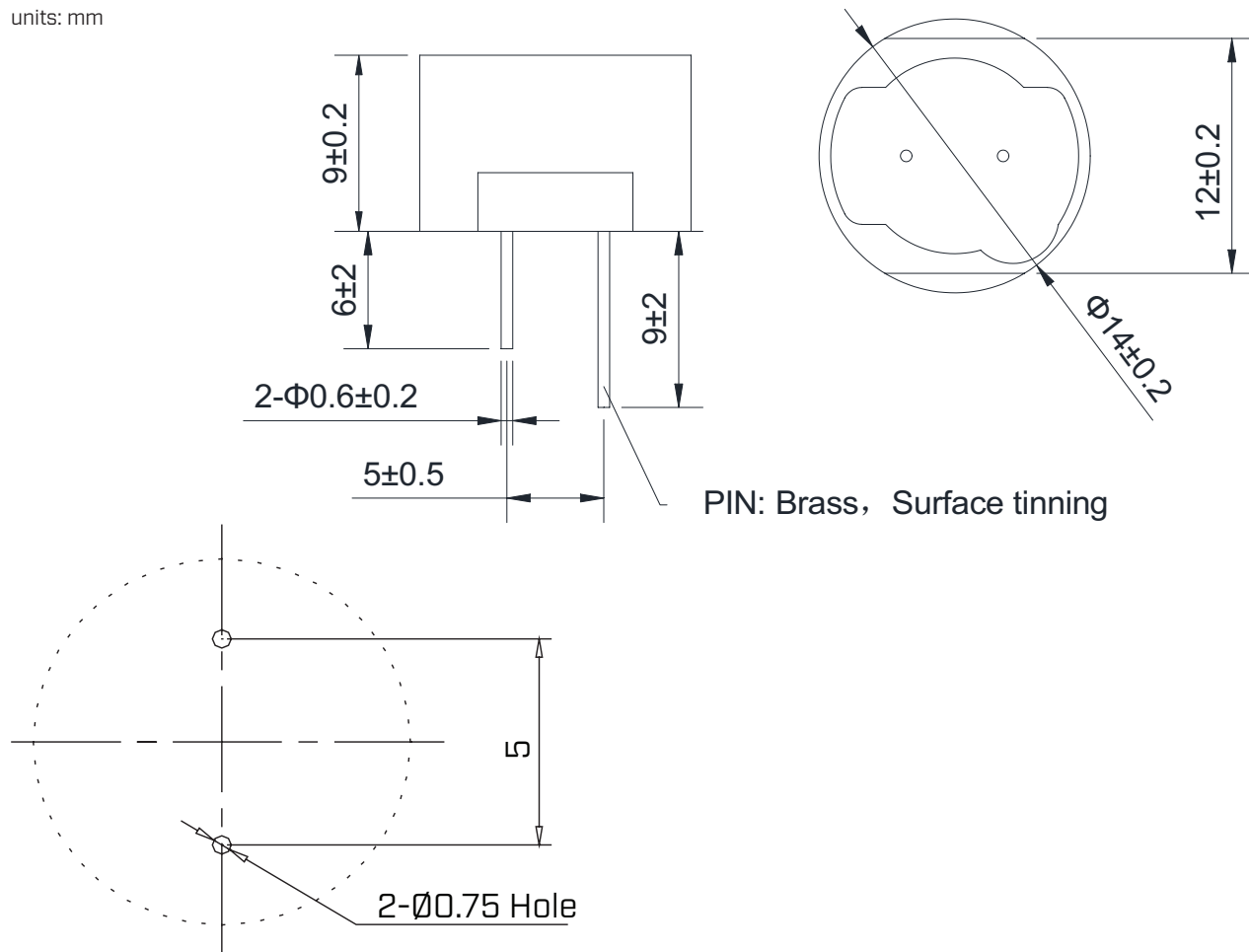
SOLDERABILITY

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



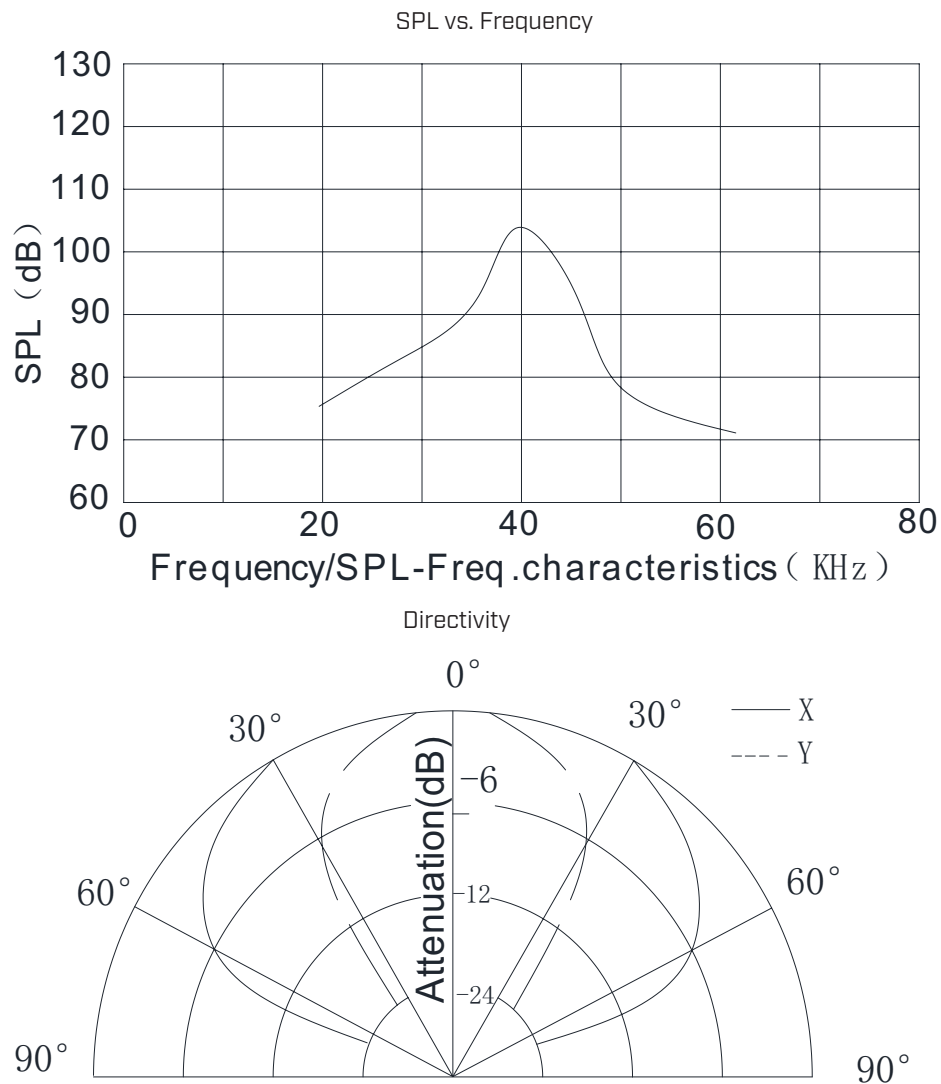
MECHANICAL DRAWING

units: mm



Recommended PCB Layout
Top View

BEAM PATTERNS



PACKAGING

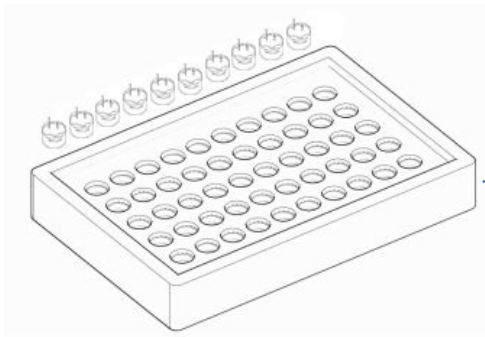
units: mm

Tray Size: 235 x 135 x 30 mm

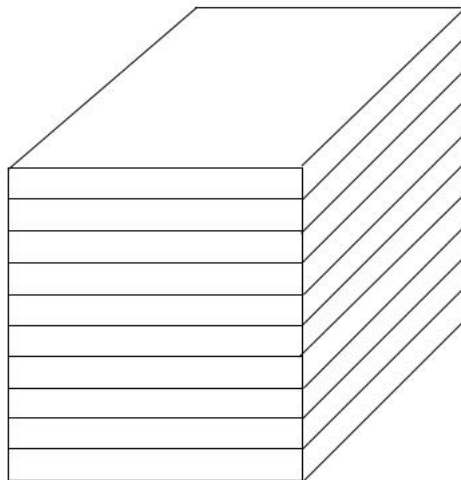
Tray QTY: 50 pcs per tray

Carton Size: 280 x 285 x 240 mm

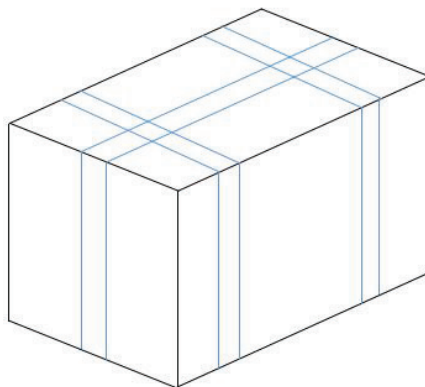
Carton QTY: 1,000 pcs per carton



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 | 05/18/2022 |
| 1.01 | logo, datasheet style update | 08/05/2022 |

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



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