CUI DEVICES



## **MODEL:** CUSA-TR60-02-2000-TH67 | **DESCRIPTION:** ULTRASONIC SENSOR

### FEATURES

- aluminum can
- IP67 rated
- combination unit: receiver & transmitter
- through hole



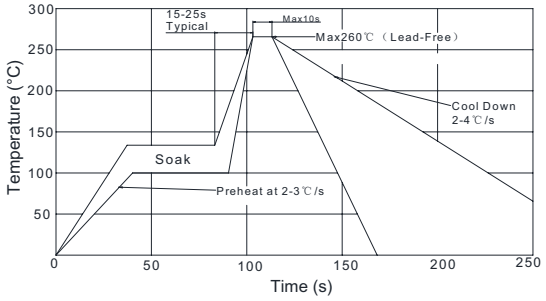
RoHS IP67

## 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 | 90 | | | dB |
| directivity | at -6 dB | 45 | 60 | 75 | degree |
| capacitance | at 1 kHz | 1,600 | 2,000 | 2,400 | pF |
| detectable range | | 0.5 | | 2 | m |
| response time | | | | 1.8 | ms |
| impedance | | | | 3,000 | Ω |
| dimensions | Ø10 x 7.0 | | | | mm |
| material | aluminum | | | | |
| terminal | pins (brass with tin plating) | | | | |
| weight | | | 0.76 | | g |
| operating temperature | | -40 | | 80 | °C |
| storage temperature | | -40 | | 85 | °C |
| RoHS | yes | | | | |
| IP level | IP67 | | | | |

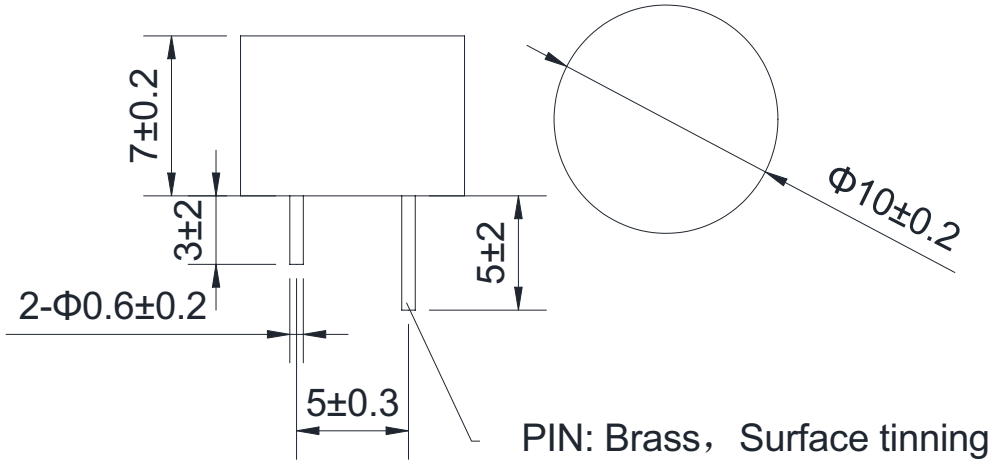
## SOLDERABILITY

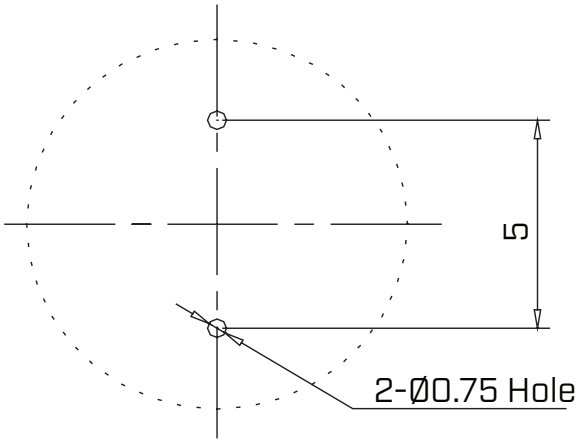
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| wave soldering | | | | 260 | °C |



## MECHANICAL DRAWING

units: mm

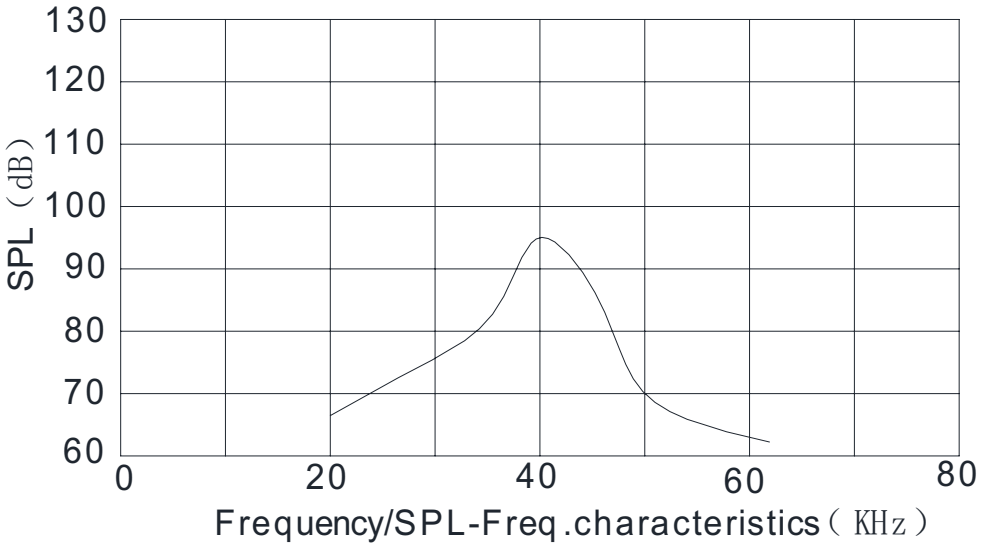


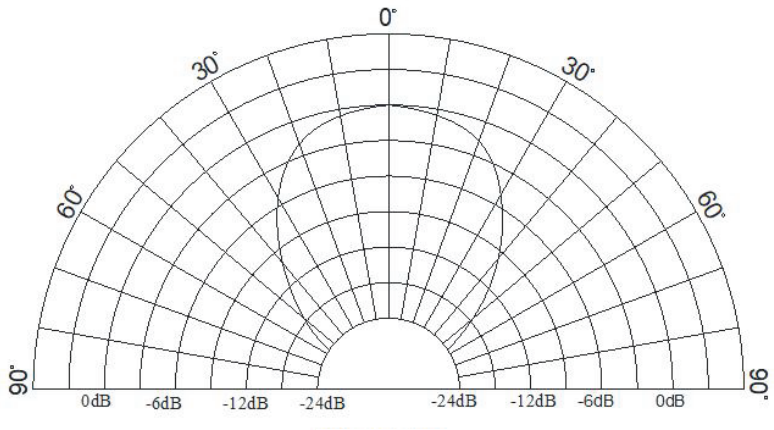

Recommended PCB Layout
Top View

## BEAM PATTERNS

SPL vs. Frequency



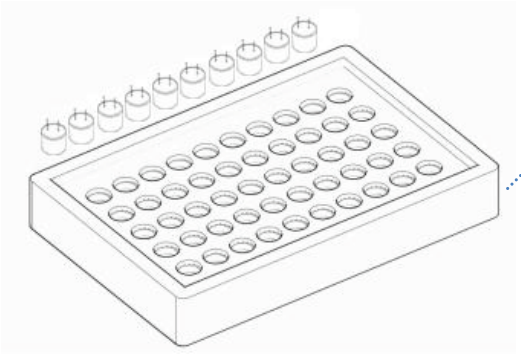

Directivity



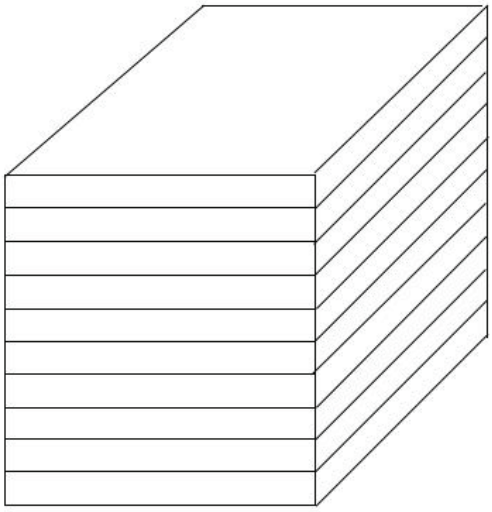
## PACKAGING

units: mm

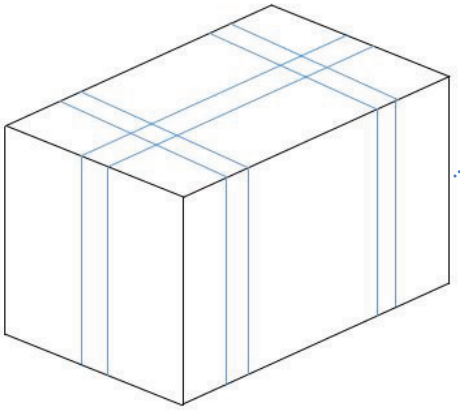
Tray Size: 235 x 135 x 30 mm
Tray QTY: 50 pcs per tray
Carton Size: 280 x 285 x 240 mm
Carton QTY: 1,000 pcs per carton



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 |

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

CUI DEVICES

CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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