

**MODEL:** CUSA-TR11-010-1150-W67 | **DESCRIPTION:** ULTRASONIC SENSOR**FEATURES**

- aluminum housing
- combination unit receiver & transmitter
- IP67
- wire leads

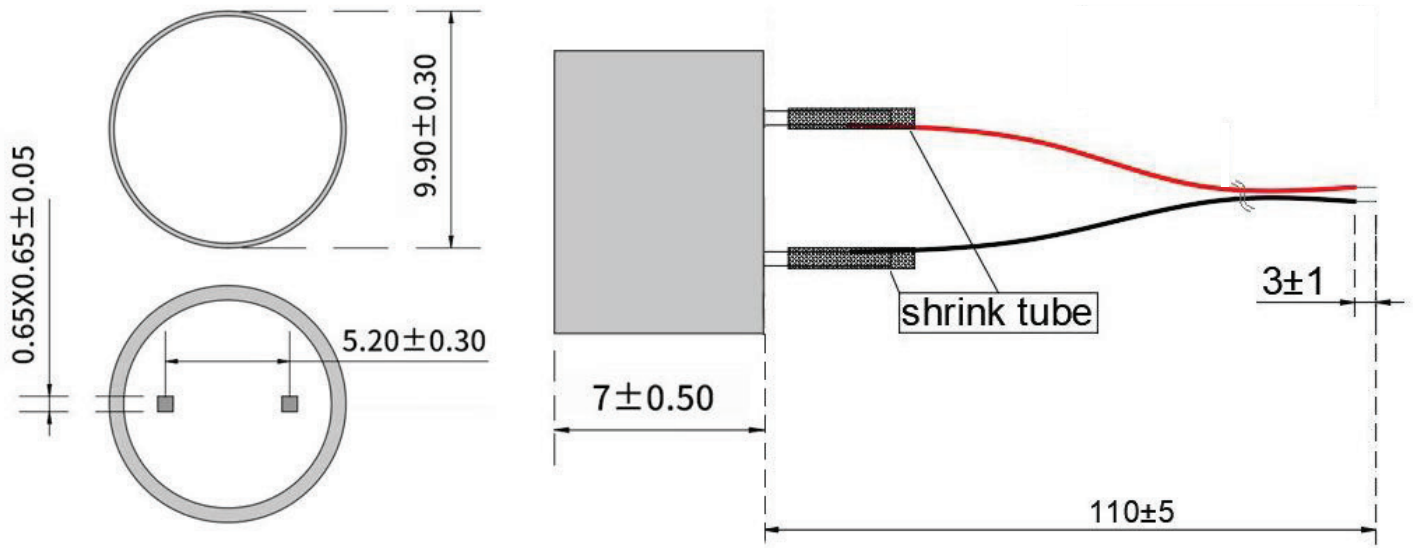
**SPECIFICATIONS**

| parameter             | conditions/description                           | min   | typ   | max   | units              |
|-----------------------|--------------------------------------------------|-------|-------|-------|--------------------|
| type                  | receiver/transmitter                             |       |       |       |                    |
| operating voltage     |                                                  |       |       | 100   | Vp-p               |
| frequency             |                                                  | 270   | 300   | 330   | kHz                |
| echo sensitivity      | at 10 cm                                         | 1.5   |       |       | V                  |
| directivity           | at -6 dB                                         | 9     | 11    | 13    | degree             |
| capacitance           | at 1 kHz                                         | 920   | 1,150 | 1,380 | pF                 |
| detectable range      |                                                  | 0.05  |       | 1     | m                  |
| response time         | at 10 Vp-p, 5 pulses, 300 kHz                    |       |       | 0.35  | ms                 |
| impedance             | at internal resistance 100 $\Omega$ , 1 kHz, 1 V | 1,120 | 1,400 | 1,680 | $\Omega$           |
| dimensions            | $\varnothing 9.9 \times 7.0$                     |       |       |       | mm                 |
| material              | aluminum                                         |       |       |       |                    |
| terminal              | wire leads                                       |       |       |       |                    |
| weight                |                                                  |       | 1.3   |       | g                  |
| operating temperature |                                                  | -20   |       | 60    | $^{\circ}\text{C}$ |
| storage temperature   |                                                  | -20   |       | 70    | $^{\circ}\text{C}$ |
| RoHS                  | yes                                              |       |       |       |                    |
| IP level              | IP67                                             |       |       |       |                    |

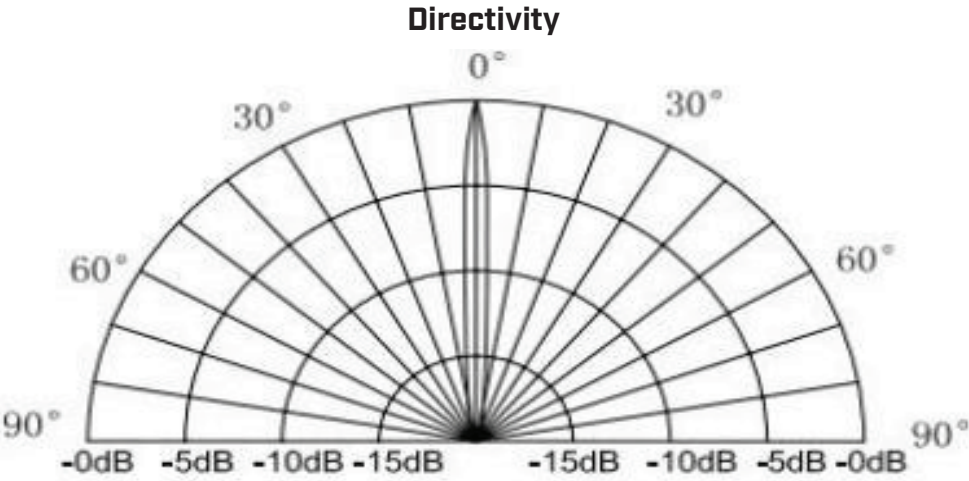
## MECHANICAL DRAWING

units: mm

wire: UL 1571, 30 AWG



**BEAM PATTERNS**



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