## FEATURES
- plastic can
- open type
- receiver
- sensitivity -75 dBV
- detectable range 15 meters

## SPECIFICATIONS

<table>
<thead>
<tr>
<th>parameter</th>
<th>conditions/description</th>
<th>min</th>
<th>typ</th>
<th>max</th>
<th>units</th>
</tr>
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<tbody>
<tr>
<td>type</td>
<td>receiver</td>
<td></td>
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<tr>
<td>operating voltage</td>
<td>at 39 kHz</td>
<td>80</td>
<td></td>
<td></td>
<td>Vp-p</td>
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<tr>
<td>frequency</td>
<td></td>
<td>38</td>
<td>39</td>
<td>40</td>
<td>kHz</td>
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<tr>
<td>sensitivity</td>
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<td>-75</td>
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<td>dBV/µmBar</td>
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<tr>
<td>directivity</td>
<td></td>
<td>80</td>
<td></td>
<td></td>
<td>degree</td>
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<tr>
<td>capacitance</td>
<td>at 1 kHz</td>
<td>1,875</td>
<td>2,500</td>
<td>3,125</td>
<td>pF</td>
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<tr>
<td>detectable range</td>
<td></td>
<td>0.2</td>
<td>15</td>
<td></td>
<td>m</td>
</tr>
<tr>
<td>dimensions</td>
<td>Ø9.8 x 7.0</td>
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<td></td>
<td></td>
<td>mm</td>
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<tr>
<td>material</td>
<td>ABS</td>
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<tr>
<td>terminal</td>
<td>pins (iron with tin plating)</td>
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<td>weight</td>
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<td>0.58</td>
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<td></td>
<td>g</td>
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<tr>
<td>operating temperature</td>
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<td>-20</td>
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<td>°C</td>
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<td>RoHS</td>
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## SOLDERABILITY

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<th>max</th>
<th>units</th>
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<tr>
<td>hand soldering</td>
<td>for 3 ± 0.5 seconds</td>
<td>370</td>
<td>380</td>
<td>390</td>
<td>°C</td>
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MECHANICAL DRAWING

units: mm

Recommended PCB Layout
Top View
**BEAM PATTERNS**

**SPL vs. Frequency**

![SPL vs. Frequency graph]

**Directivity**

![Directivity graph]

Additional Resources: [Product Page](#) | [PCB Footprint](#)
PACKAGING

units: mm
Tray Size: 230 x 135 x 35 mm
Tray QTY: 100 pcs per tray
Carton Size: 490 x 350 x 270 mm
Carton QTY: 4,000 pcs per carton

100PCS/BOX
BOX SIZE:23*13.5*3.5CM

10BOXES/STACK, TOTAL 1000PCS
STACK SIZE:23*13.5*28CM

4000PCS/CARTON
CARTON SIZE:49*35*27CM
CUI DEVICES | MODEL: CUSP-R80-15-2500-TH | DESCRIPTION: ULTRASONIC SENSOR

date 08/05/2022 | page 5 of 5

REVISION HISTORY

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<tr>
<th>rev.</th>
<th>description</th>
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<tr>
<td>1.0</td>
<td>initial release</td>
<td>12/02/2020</td>
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<tr>
<td>1.01</td>
<td>logo, datasheet style update</td>
<td>08/05/2022</td>
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The revision history provided is for informational purposes only and is believed to be accurate.