# Waveguide Isolator, 18-26.5GHz, WR42, Full or Split Bands

10% Bandwidth, 0.5-1Watt Reverse Power

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**Specifications**

<table>
<thead>
<tr>
<th>Units</th>
<th>Full Band</th>
<th>Full Band</th>
<th>Full Band</th>
<th>Full Band</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>18-26.5</td>
<td>18-26.5</td>
<td>18.8-26.5</td>
<td>22-26.5</td>
<td>GHz</td>
</tr>
<tr>
<td>Insertion loss</td>
<td>0.5</td>
<td>0.5</td>
<td>1.5</td>
<td>0.3</td>
<td>dB maximum</td>
</tr>
<tr>
<td>Isolation</td>
<td>18</td>
<td>17</td>
<td>25</td>
<td>18</td>
<td>dB minimum</td>
</tr>
<tr>
<td>VSWR</td>
<td>1.3:1</td>
<td>1.3:1</td>
<td>1.5:1</td>
<td>1.3:1</td>
<td></td>
</tr>
<tr>
<td>Power Forward</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>Watt minimum</td>
</tr>
<tr>
<td>Power Reverse (Load)</td>
<td>1</td>
<td>1</td>
<td>0.5</td>
<td>0.5</td>
<td>Watt minimum</td>
</tr>
<tr>
<td>Waveguide interface type</td>
<td>WR42/UDR220</td>
<td>WR42/UG595U</td>
<td>WR42/UDR220</td>
<td>WR42/UDR220</td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-15 to +35</td>
<td>-15 to +35</td>
<td>-35 to +80</td>
<td>-35 to +80</td>
<td>°C</td>
</tr>
</tbody>
</table>

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**Hole Options-X**

- 1 8 off 4-40 UNC 2B 0.17”(4.32) deep
- 2 4 Thru holes 0.116/.110 dia., +/-0.01
- 3 8 off M3 x 5-6H (5 pitch, 6H thread class) x0.280”(7.1) deep
- 4 4 x M3 0.5-6H, tapped thru

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**Tolerance Table Metric (inch)**

(Unless otherwise stated):

- Hole diameter +/- 0.1mm, (+/- 0.004")
- Dimensions (w*h) +/- 0.3 mm, (+/- 0.015")
- Waveguide Slot Position, +/- 0.1mm, (+/- 0.04")
- Dimensions (hole position) +/- 0.1mm, (+/- 0.04")

**Machined surfaces**

- Flatness 0.025/mm, (0.001/ inch)
- Bend radius 0.8mm, (0.031" or 1/32")

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**Material:** Aluminum

**Finish:** Chemical Film

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**Order Examples:** RADI-18-26.5-WR42(UDR220)-1WR-1-b

I=ISOLATOR