Description: 2X2 MIMO Dual WiFi Antenna

Series: FPC Antenna

PART NUMBER: W6102B0100

Features:
- Port 1: 2.4-2.5/4.9-5.925GHz
- Port 2: 2.4-2.5/4.9-5.925GHz
- Supports dual band WiFi and DSRC bands
- Size 50x20mm
- Cables 100mm 1.13mm OD
- U.FL compatible connectors

Applications:
- WiFi, Zigbee, Bluetooth radios
- ISM 2.4GHz and 5GHz
- DSRC 5925MHz
- Routers, Gateways, Security
- Transportation
- M2M, IoT
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ELECTRICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>2.4-2.5/4.9-5.925GHz</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>50Ω</td>
</tr>
<tr>
<td>VSWR</td>
<td>&lt;2</td>
</tr>
<tr>
<td>Gain</td>
<td>2dBi+/- <a href="mailto:1dB@2.4GHz">1dB@2.4GHz</a></td>
</tr>
<tr>
<td></td>
<td>6dBi+/-1dB@5GHz</td>
</tr>
<tr>
<td>Radiation Pattern</td>
<td>Omni</td>
</tr>
<tr>
<td>Polarization</td>
<td>Linear</td>
</tr>
<tr>
<td>Power withstanding</td>
<td>3W</td>
</tr>
<tr>
<td>Connector type</td>
<td>U.FL compatible</td>
</tr>
<tr>
<td>Cable type</td>
<td>Low loss Φ1.13mm Coaxial Cable</td>
</tr>
<tr>
<td>Cable length</td>
<td>100mm</td>
</tr>
</tbody>
</table>

(*) All RF parameters measured on 2mm thick PC plate
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### MECHANICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Weight</td>
<td>1.22 g</td>
</tr>
<tr>
<td>Overall Length</td>
<td>50 mm</td>
</tr>
<tr>
<td>Radiator Thickness with adhesive tape</td>
<td>0.2 mm</td>
</tr>
<tr>
<td>Fixing system</td>
<td>Adhesive Tape, 3M6677 PC</td>
</tr>
</tbody>
</table>

### ENVIRONMENTAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature</td>
<td>-40~ +85° C</td>
</tr>
</tbody>
</table>
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CHARTS

Efficiency (%)

Peak Gain (dBi)

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CHARTS

Typical free space radiation pattern—Antenna1: 2.4-2.5GHz

(*) All RF parameters measured on 2mm thick PC plate

XY plane

ZX plane

YZ plane
Description: 2X2 MIMO Dual WiFi Antenna

Series: FPC Antenna

PART NUMBER: W6102B0100

Typical free space radiation pattern—Antenna1: 4.9-5.925GHz

(*) All RF parameters measured on 2mm thick PC plate

XY plane

ZX plane

YZ plane
Description: 2X2 MIMO Dual WiFi Antenna

PART NUMBER: W6102B0100

CHARTS

Typical free space radiation pattern—Antenna2: 2.4-2.5GHz

(*) All RF parameters measured on 2mm thick PC plate
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CHARTS

Typical free space radiation pattern—Antenna2:  4.9-5.925GHz

(*) All RF parameters measured on 2mm thick PC plate

XY plane

ZX plane

YZ plane
Description: 2X2 MIMO Dual WiFi Antenna

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<table>
<thead>
<tr>
<th>PACKAGING</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 antennas packed in one plastic bag</td>
</tr>
<tr>
<td>100 bags (TBD) of antennas packed in a cardboard box</td>
</tr>
<tr>
<td>1 label on each box with qty, part number, date code.</td>
</tr>
</tbody>
</table>