

## Description: INTERNAL FPC DUAL-BAND WIFI

Series: Internal Antenna

PART NUMBER: W3315BXXXX



### Features:

- Dualband WiFi antenna
  - 2400-2500MHz
  - 4900-5925MHz
- Gain 2/5dBi
- Connector:
  - As required
- Cable
  - As required

### Applications:

- WiFi, Bluetooth, BLE, ZigBee
- DSRC
- 2.4 and 5GHz proprietary radios
- IoT and M2M terminals
- Security, Transportation

All dimensions are in mm / inches

Issue: 2002

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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This document covers all product variants of the following product family

| Antennas         | Equivalent PN | Cable Type    | Cable Length | Connector                                                               | Suggested Receptacle                       |
|------------------|---------------|---------------|--------------|-------------------------------------------------------------------------|--------------------------------------------|
| W3315B0100       | W3315B0100    | Φ1.13mm Black | 100mm        | IPEX MHF –A13<br>20428-001R                                             | I-PEX 20429-001E                           |
| W3315B0065MHF1   | W3315BA0065   |               | 65mm         | Equivalent of IPEX<br>MHF 20278-112R-13,                                | I-PEX 20279-001E or<br>I-PEX 20441-001E-01 |
| W3315B0100MHF1   | W3315BA0100   |               | 100mm        | Compatible with <b>U.FL</b>                                             |                                            |
| W3315B0200MHFIII | W3315BC0200   | Φ0.81mm Black | 200mm        | Equivalent of IPEX<br>MHFIII 20367-001R,<br>Compatible with <b>W.FL</b> | I-PEX 20369-001E                           |
| W3315B0100MHF4   | W3315BD0100   |               | 100mm        | Equivalent of IPEX<br>MHF4 20448-001R-081                               | I-PEX 20449-001E or<br>I-PEX 20579-001E    |
| W3315B0250MHF4L  | W3315BD0250   |               | 250mm        | Equivalent of IPEX<br>MHF4L 20499-001E                                  |                                            |

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ELECTRICAL SPECIFICATIONS

|                     |                      |
|---------------------|----------------------|
| Frequency           | 2.4-2.5/4.9-5.925GHz |
| Nominal Impedance   | 50Ω                  |
| VSWR                | 2:1                  |
| Gain (2400-2500MHz) | 2dBi +/- 1 dB        |
| Gain (4900-5925MHz) | 5dBi +/- 1 dB        |
| Efficiency(Average) | 70%                  |
| Radiation Pattern   | OMNI                 |
| Polarization:       | Vertical             |
| Power withstanding  | 2W Max               |
| Cable and Connector | As Required          |
| Cable length        | As Required          |

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MECHANICAL SPECIFICATIONS

|               |                      |
|---------------|----------------------|
| Weight        | 0.5 g                |
| Fixing system | Adhesive Tape 3M9077 |

ENVIRONMENTAL SPECIFICATIONS

|                       |                                                    |
|-----------------------|----------------------------------------------------|
| Operating temperature | -40 ~ +85° C                                       |
| Humidity              | 95% RH @ +25°C for 12 h and 55°C for 12h, 6 cycles |
| Salt mist             | 48 hours                                           |

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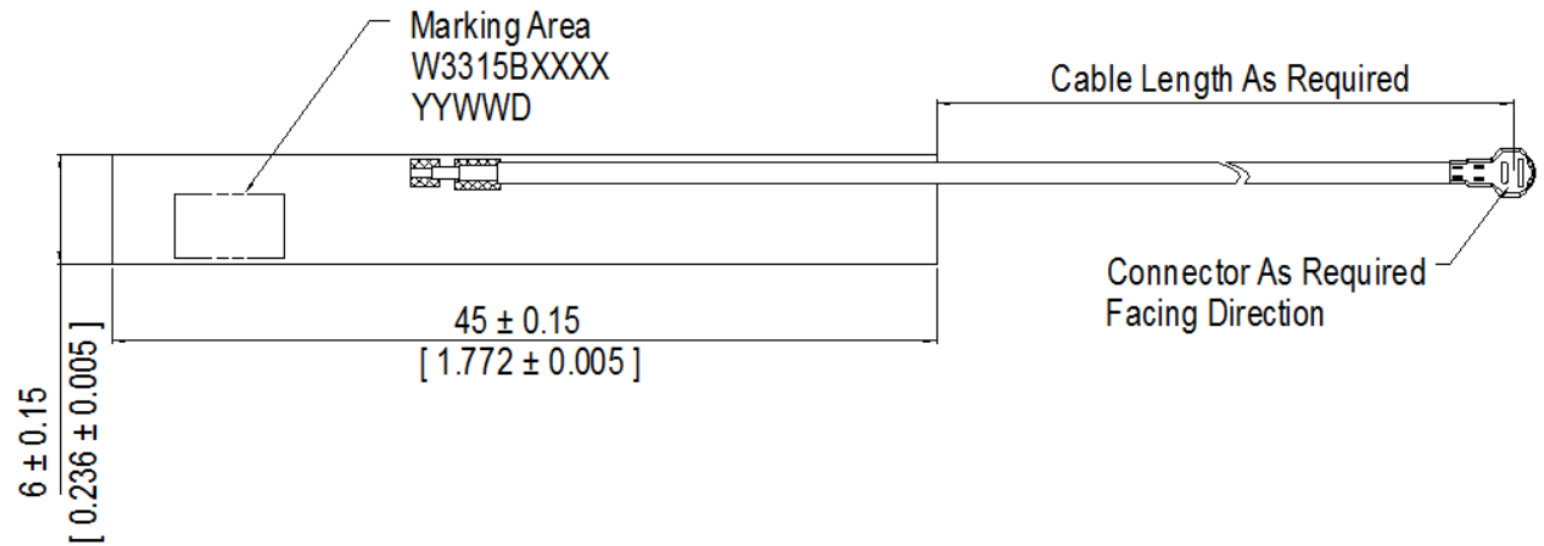
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### MECHANICAL DRAWING



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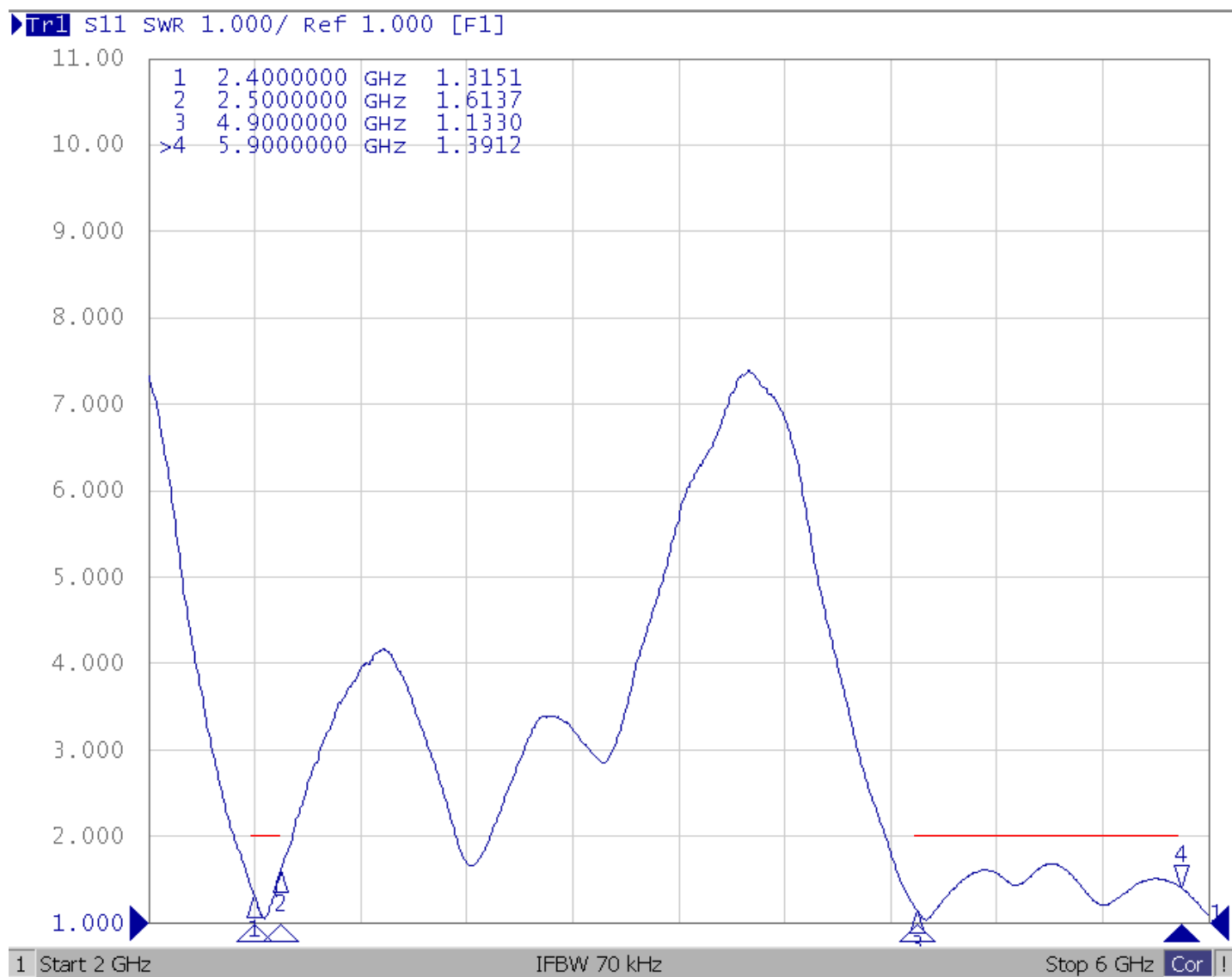
Series: Internal Antenna

PART NUMBER: W3315BXXXX

### CHARTS

**W3315B0100** Measured on a 2mm thick plastic (ABS) part.

### VSWR



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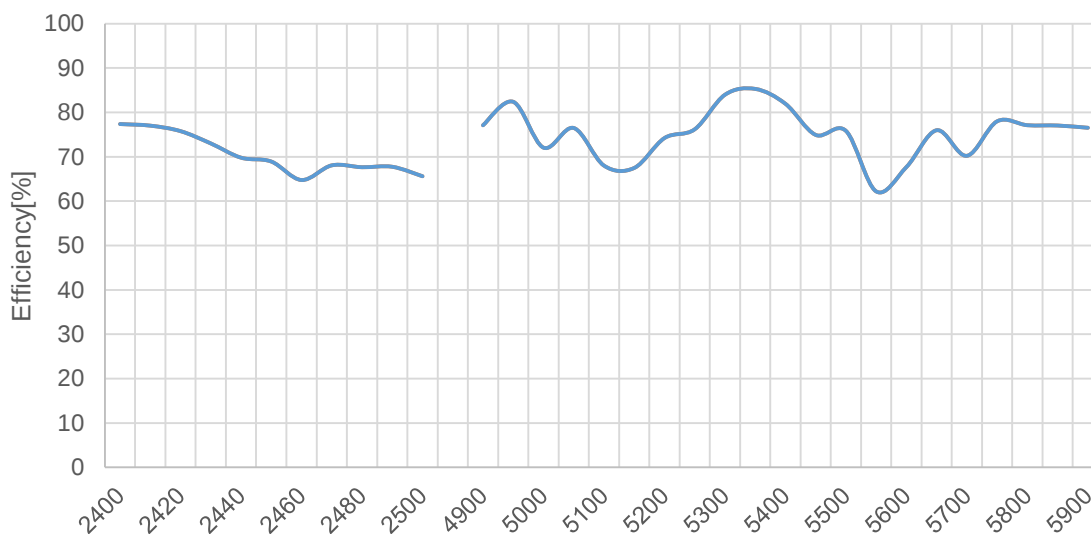
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### CHARTS

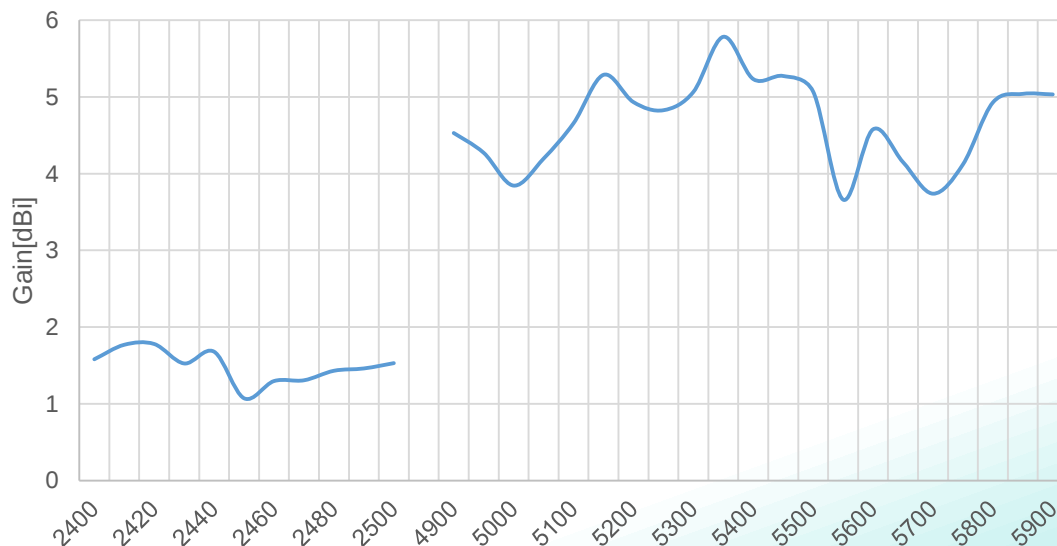
#### Efficiency(%)

W3315B0100



#### Gain(dBi)

W3315B0100



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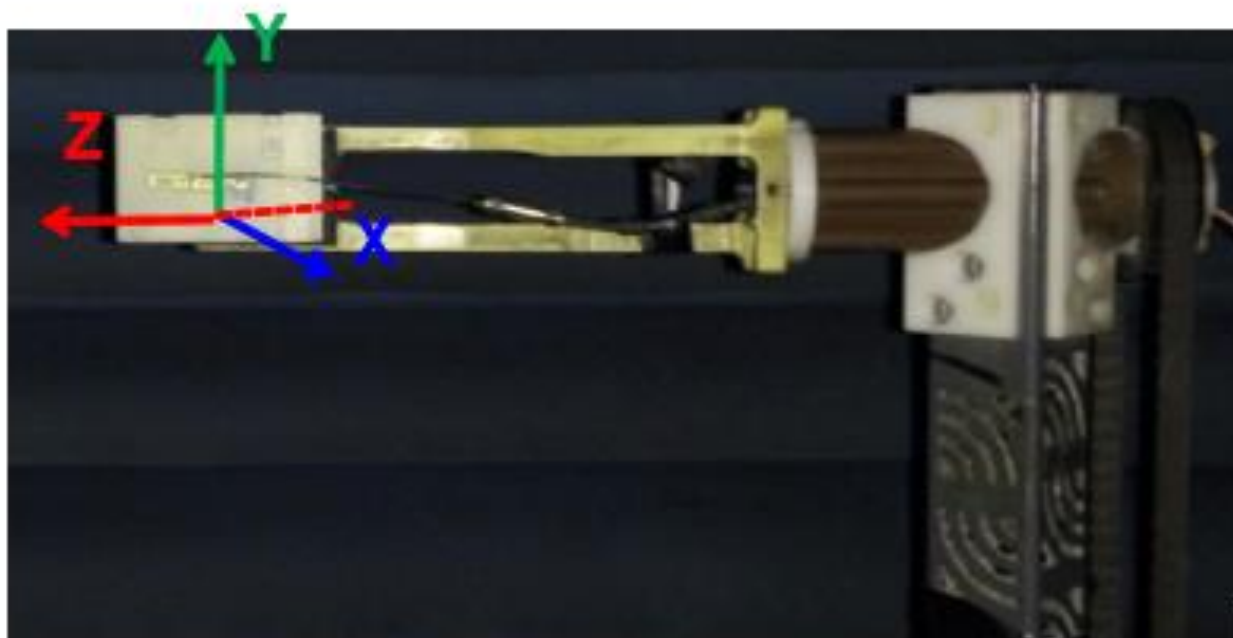
PART NUMBER: W3315BXXXX

CHARTS

W3315B0100 Measured on a 2mm thick plastic (ABS) part.

3D pattern

The pattern is measured on 2mm plastic (ABS) part.



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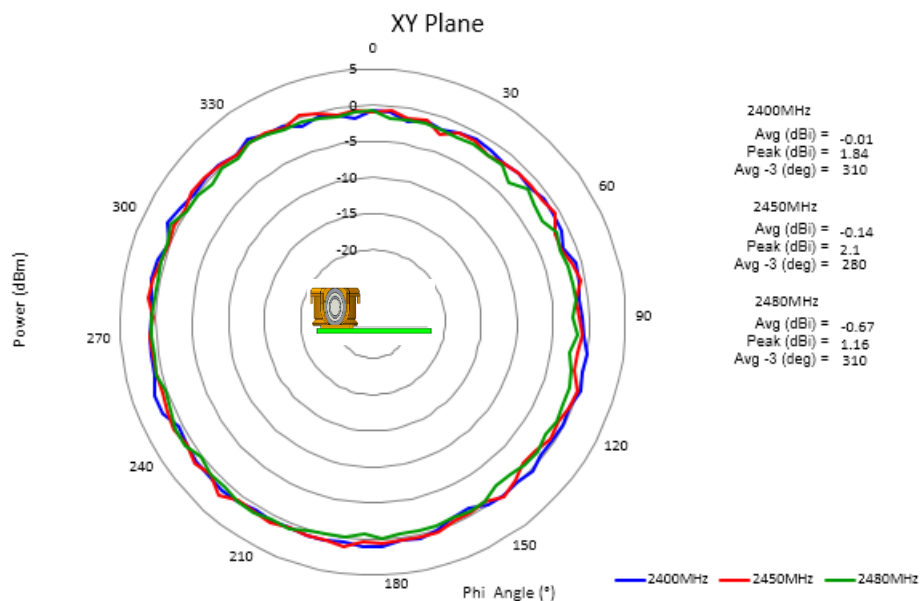
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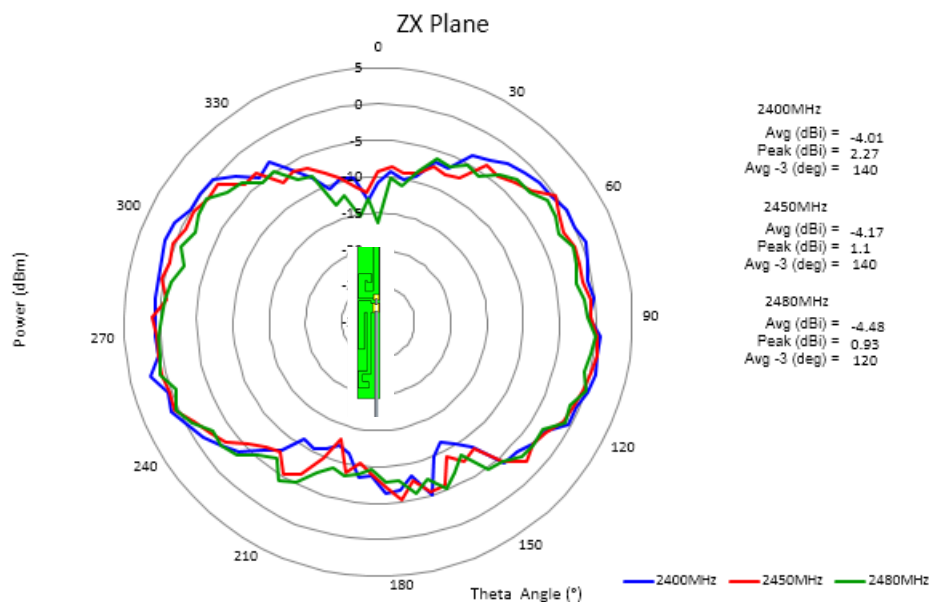
### 2400-2500MHz

### CHARTS

#### H\_plane



#### E\_plane



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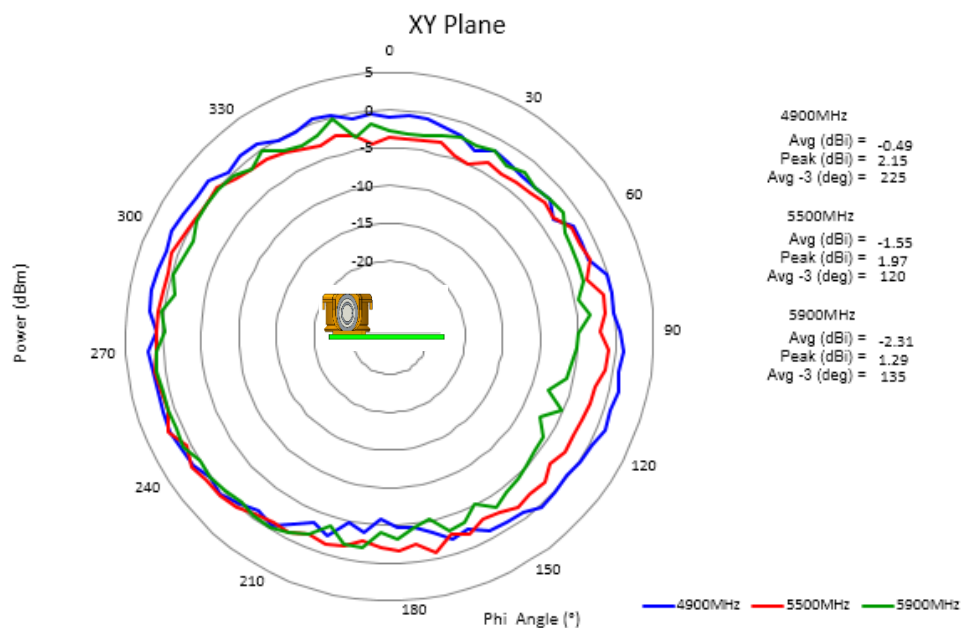
Series: Internal Antenna

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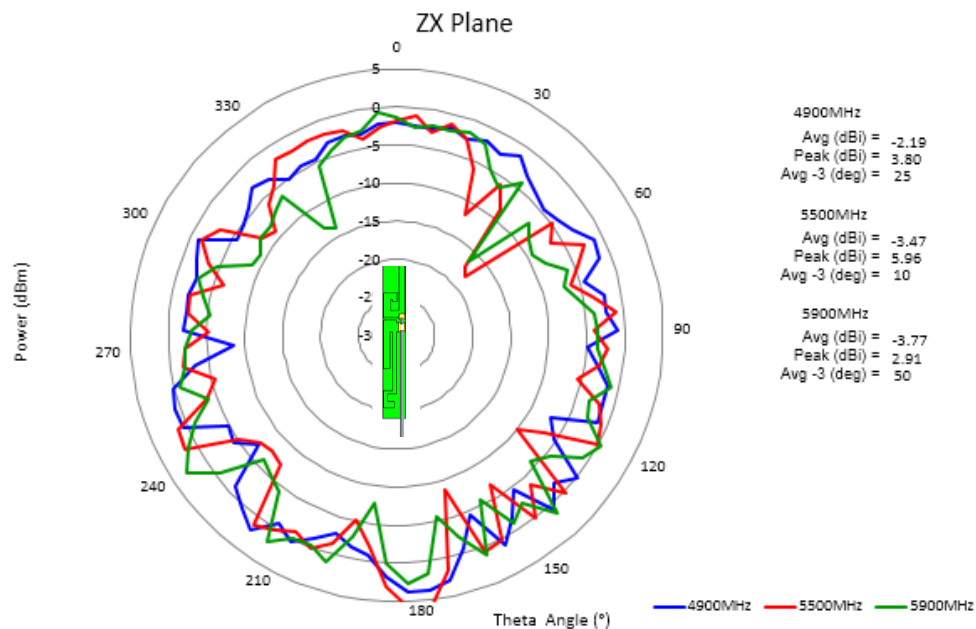
4900-5925MHz

CHARTS

H\_plane



E\_plane



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**PACKAGING**

10 antennas packed in one plastic bag

10 plastic bags of 10 antennas packed in a bubble bag

15 bubble bags of 100 antennas packed in a cardboard box

1 label on each box with qty, part number, date code.