

Description: INTERNAL FPC DUAL-BAND WIFI

Series: Internal Antenna

PART NUMBER: W3315B0100

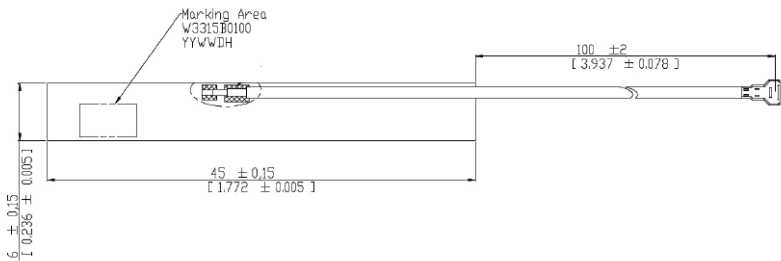


Features:

- Dualband WiFi antenna
 - 2400-2500MHz
 - 4900-5925MHz
- Gain 2/5dBi
- Connector:
 - IPEX MHF –A13 20428-001R
- Cable 100mm OD 1.13mm

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: 1617

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

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Tel: 86 512 6807 9998



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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 |
| Connector type | IPEX MHF –A13 20428-001R |
| Suggested Receptacle | I-PEX 20429-001E |
| Cable type | Φ 1.13mm, Black |
| Cable length | 100mm |

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MECHANICAL SPECIFICATIONS

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

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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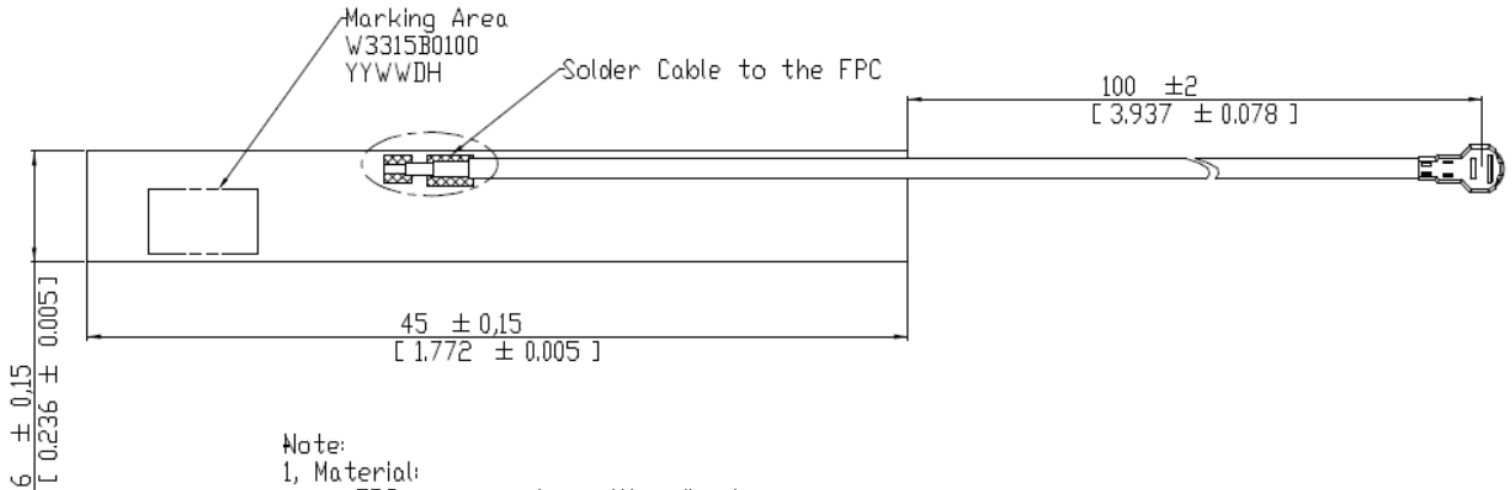
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MECHANICAL DRAWING



Note:

1. Material:
 FPC, green color, with adhesive.
 Cable: \varnothing 1.13mm, black
 connector: IPEX MHF-A13 20428-001R
 Suggested receptacle: I-PEX 20429-001E
2. Marking, black
 Marking format
 W3315B0100
 YYWWDH
 YY = manufacture year (2012=12, 2013=13...)
 WW= manufacture week
 D = manufacture day of the week (1, 2, 3...7)
 H = manufacture hour (A=00, B=01...)
3. Visual quality PQ5.030.000 Class III.
4. Rohs compliance.
5. Operation temperature: -40°C ~+85°C.

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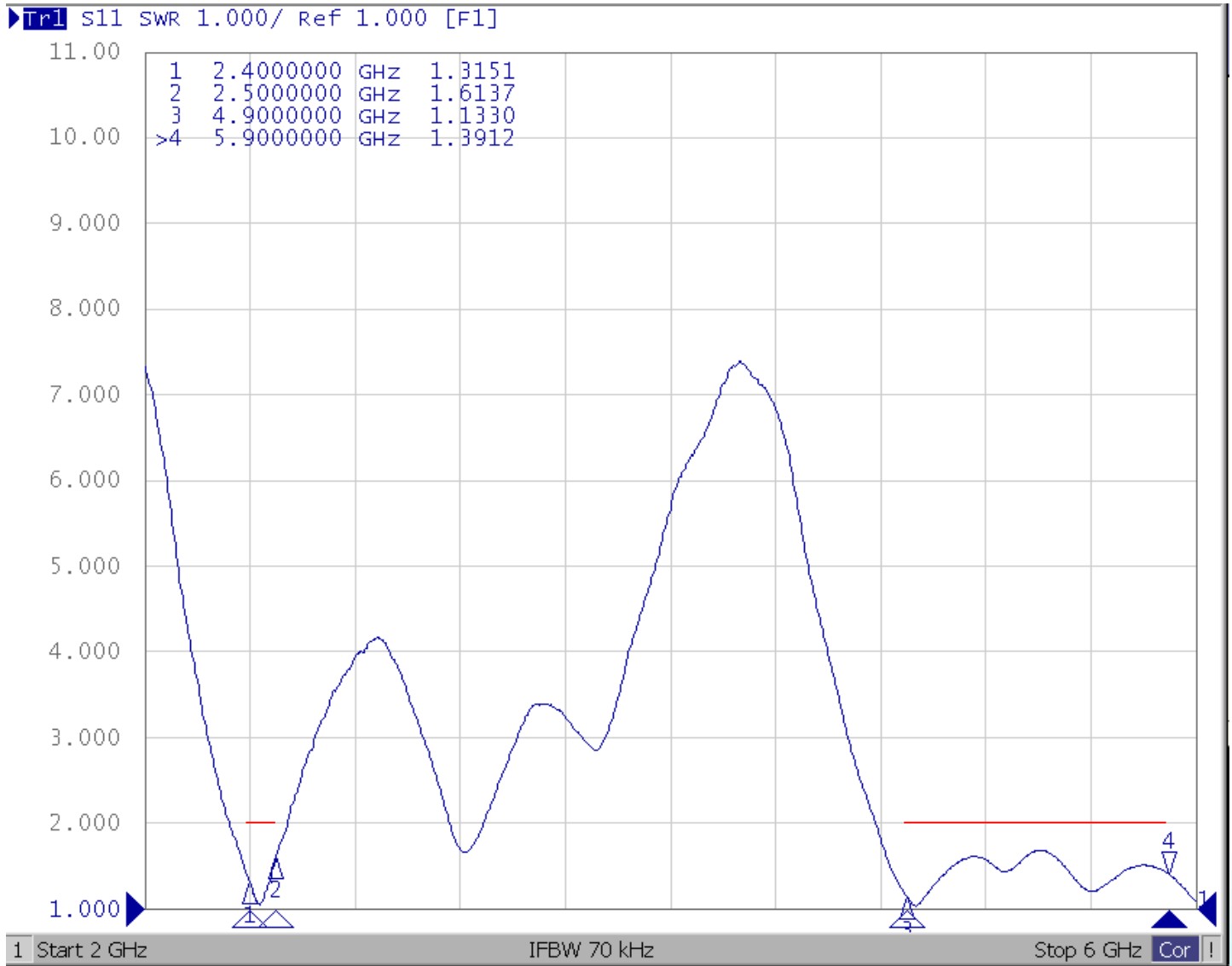
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CHARTS

Measured with 2mm plastic (ABS) part.

VSWR



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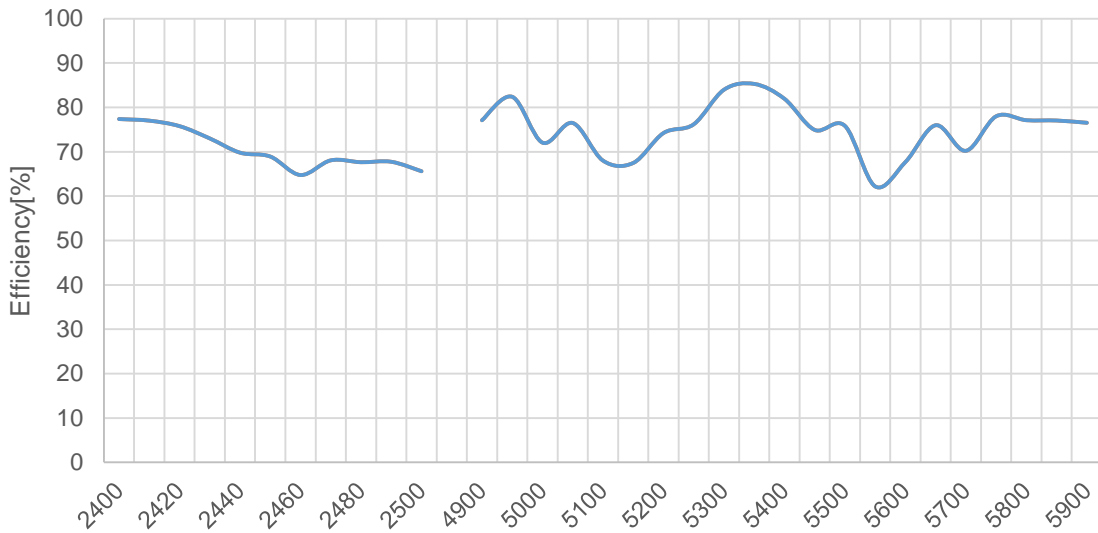
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CHARTS

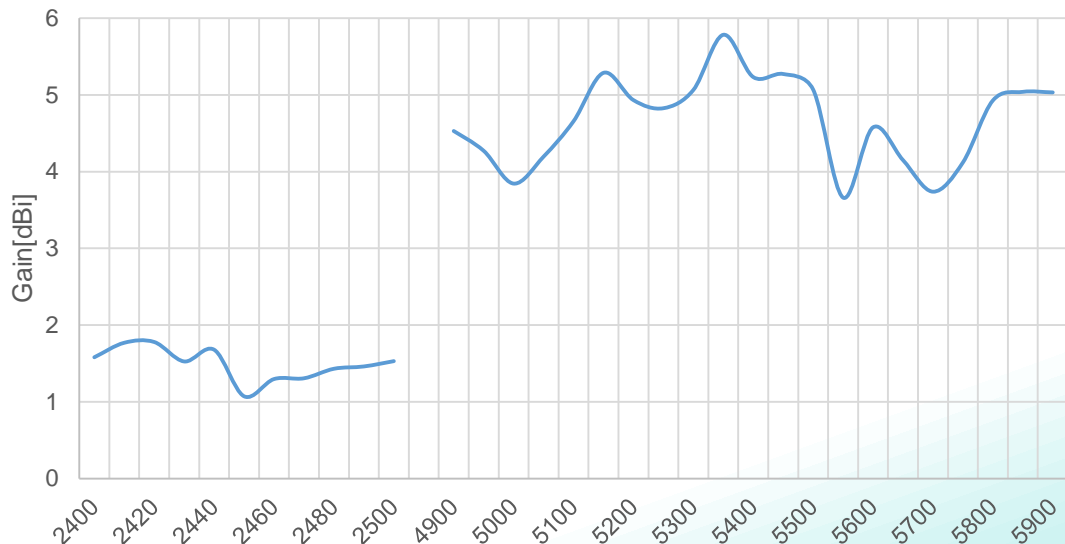
Efficiency(%)

W3315B0100



Gain(dBi)

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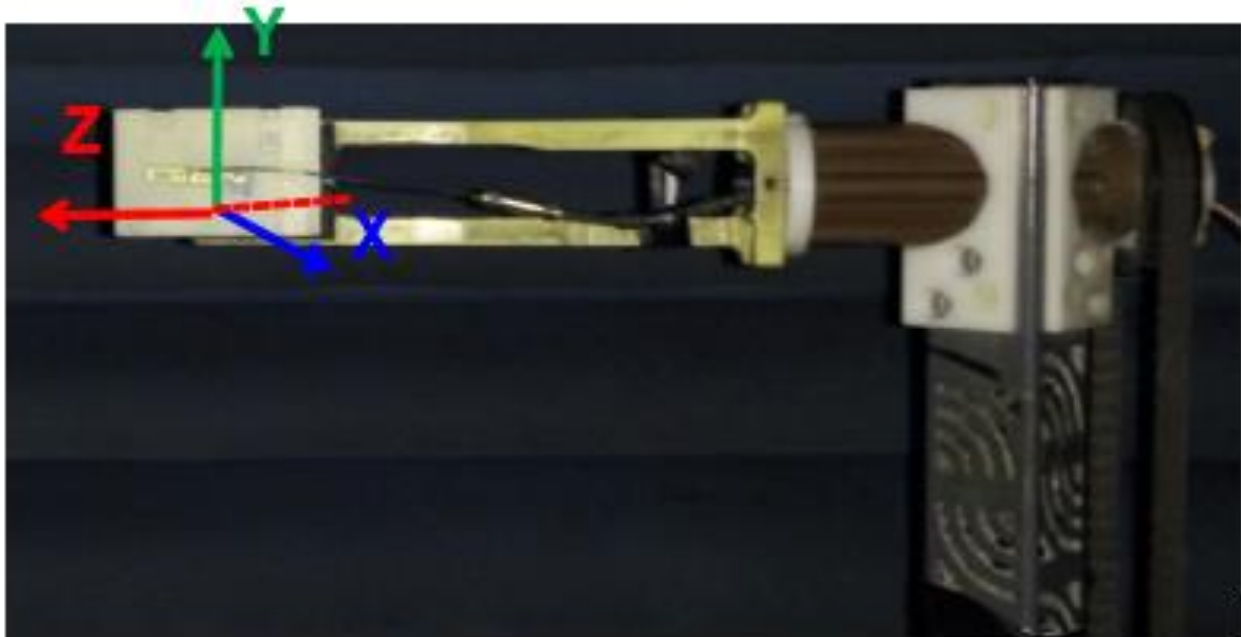
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CHARTS

3D pattern

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



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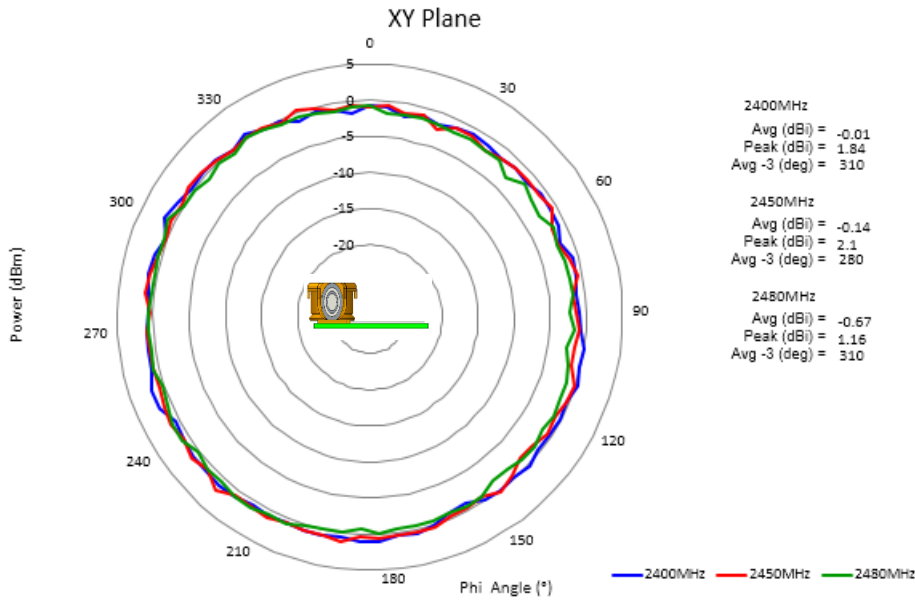
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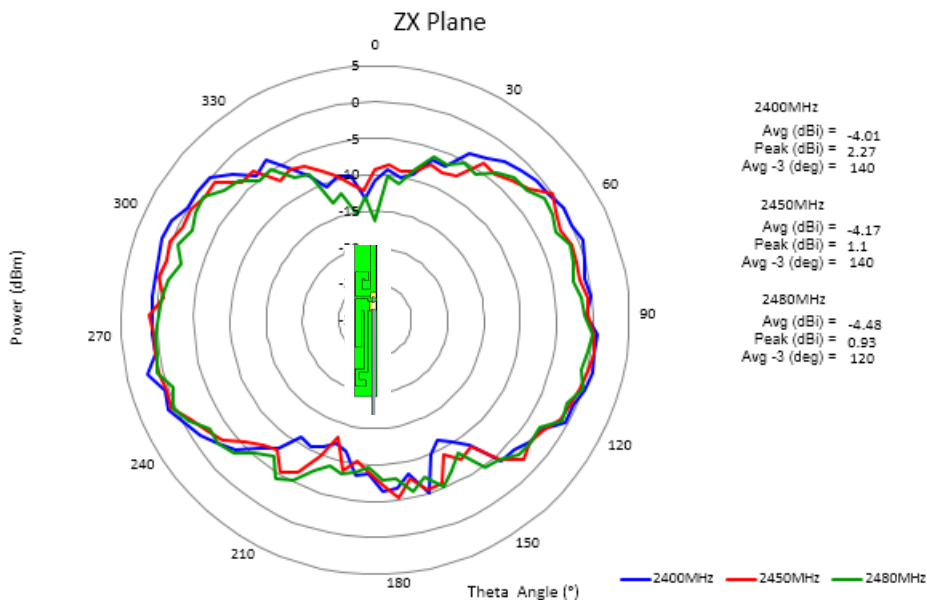
2400-2500MHz

CHARTS

H_plane



E_plane



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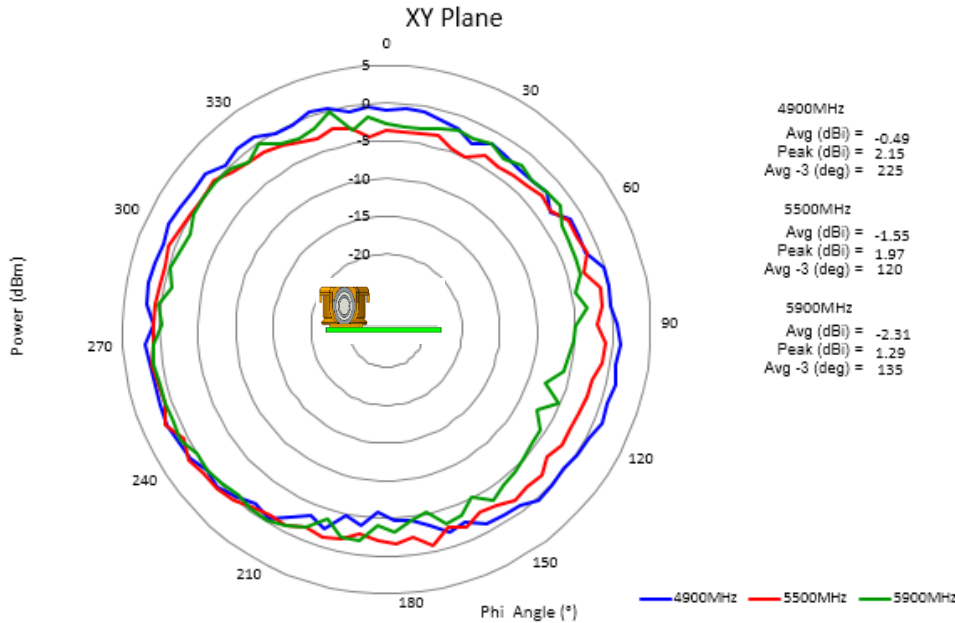
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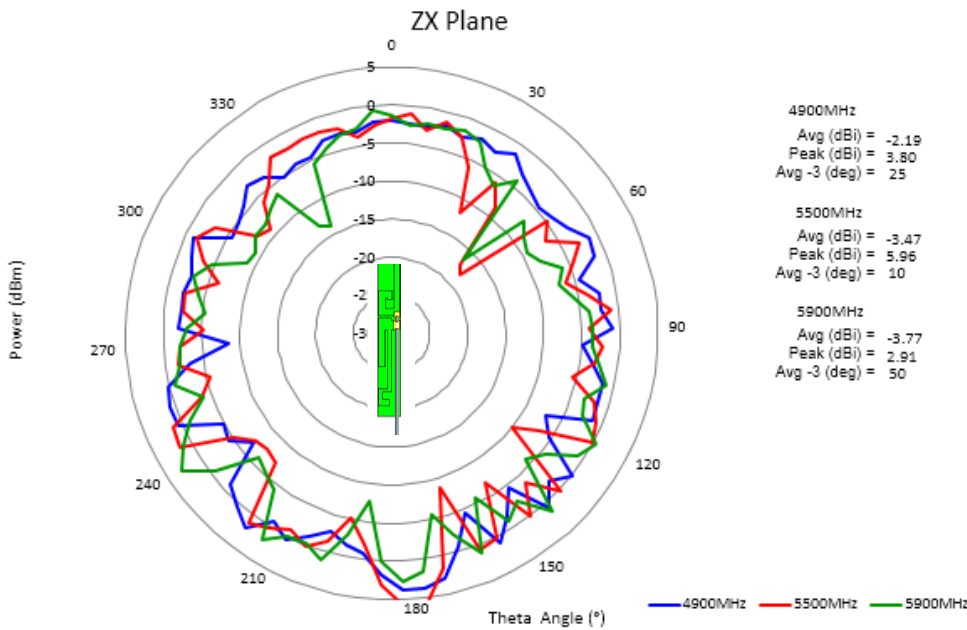
4900-5925MHz

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.