

## Description: INTERNAL FPC DUAL-BAND WIFI

Series: Internal Antenna

PART NUMBER: W3315B0100

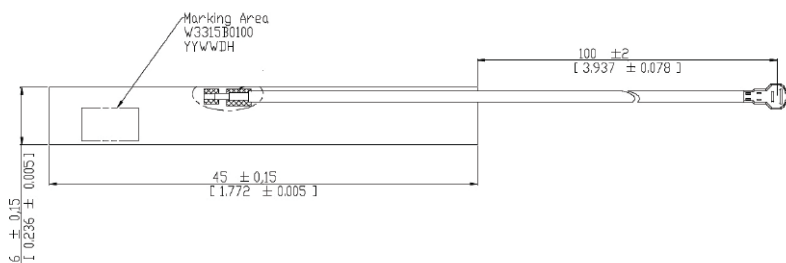


### Features:

- 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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## 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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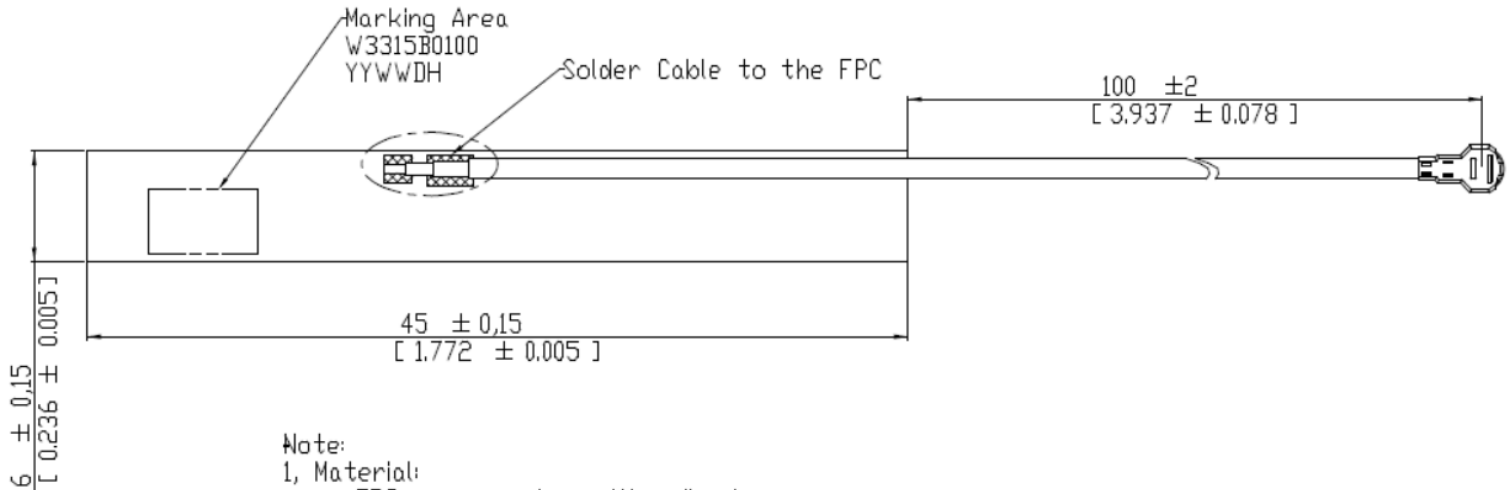
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### MECHANICAL DRAWING



Note:

1. Material:

FPC, green color, with adhesive.  
Cable: Ø 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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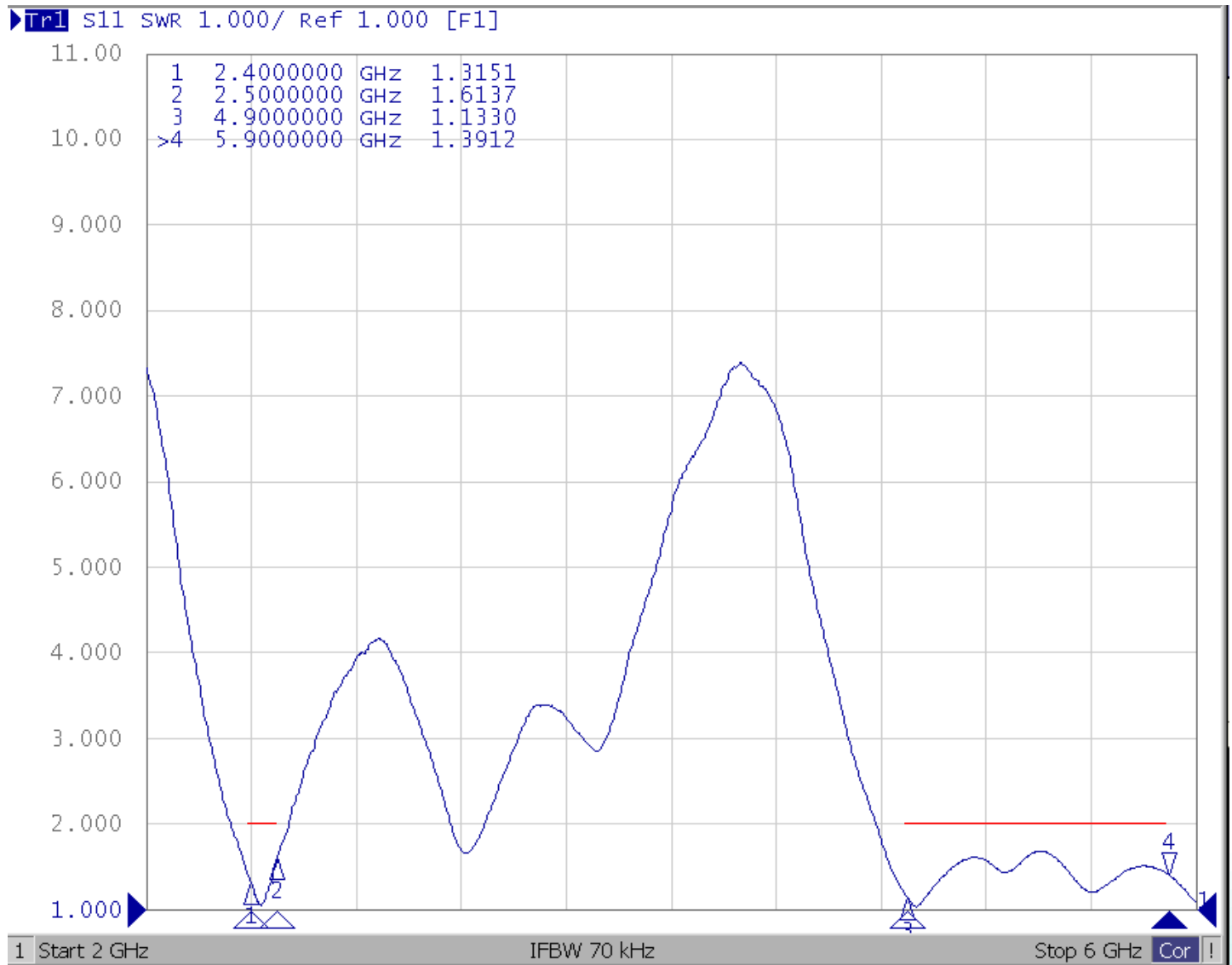
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## CHARTS

Measured with 2mm plastic (ABS) part.

### VSWR



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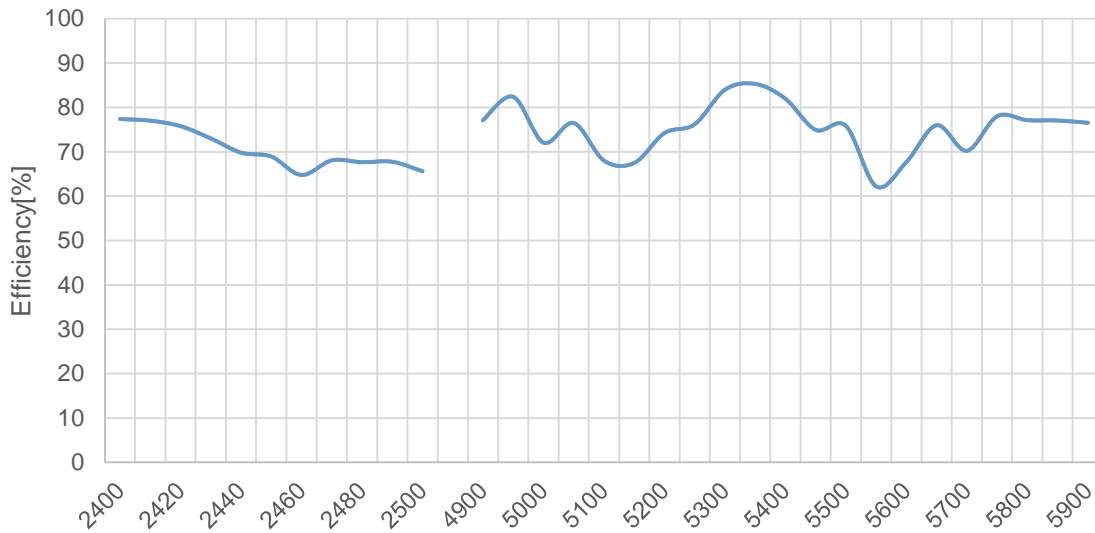
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CHARTS

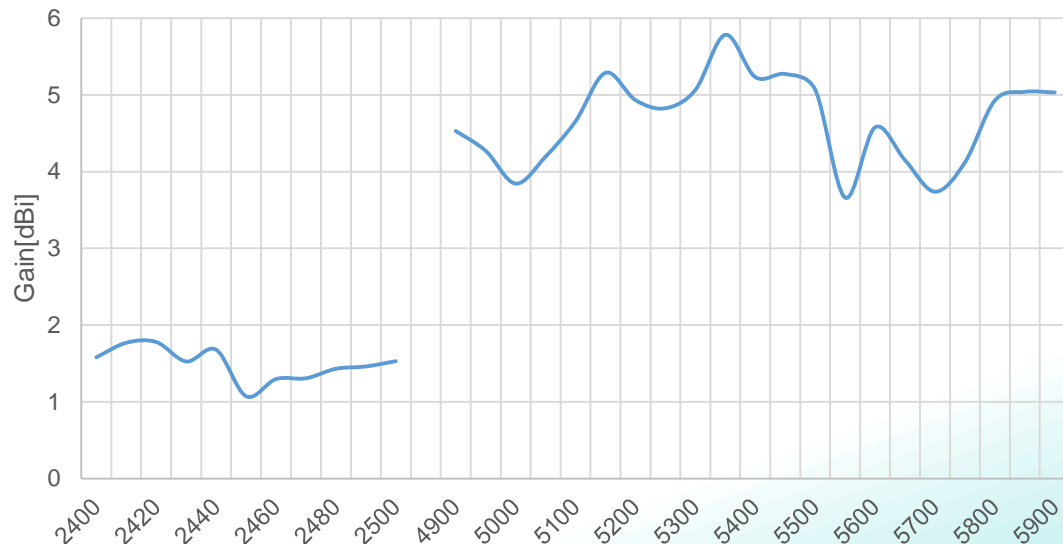
Efficiency(%)

W3315B0100



Gain(dBi)

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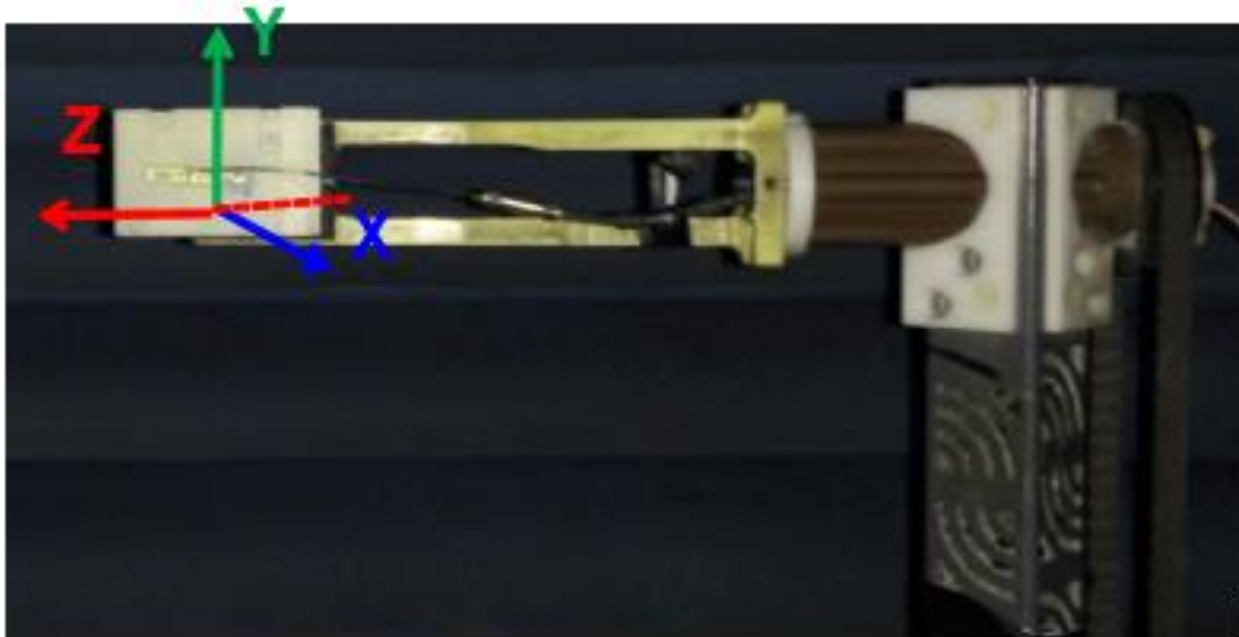
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## CHARTS

### 3D pattern

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



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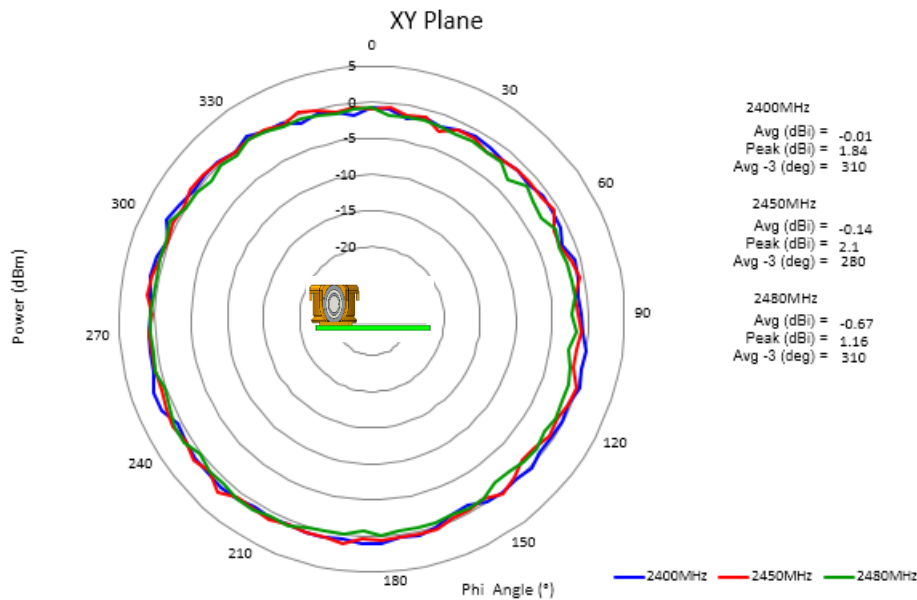
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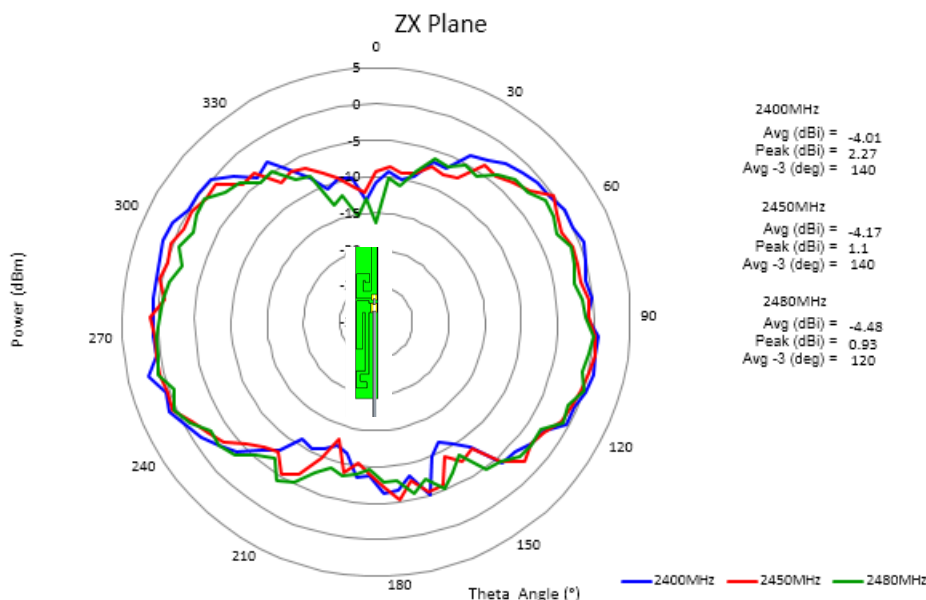
### 2400-2500MHz

### CHARTS

#### H\_plane



#### E\_plane



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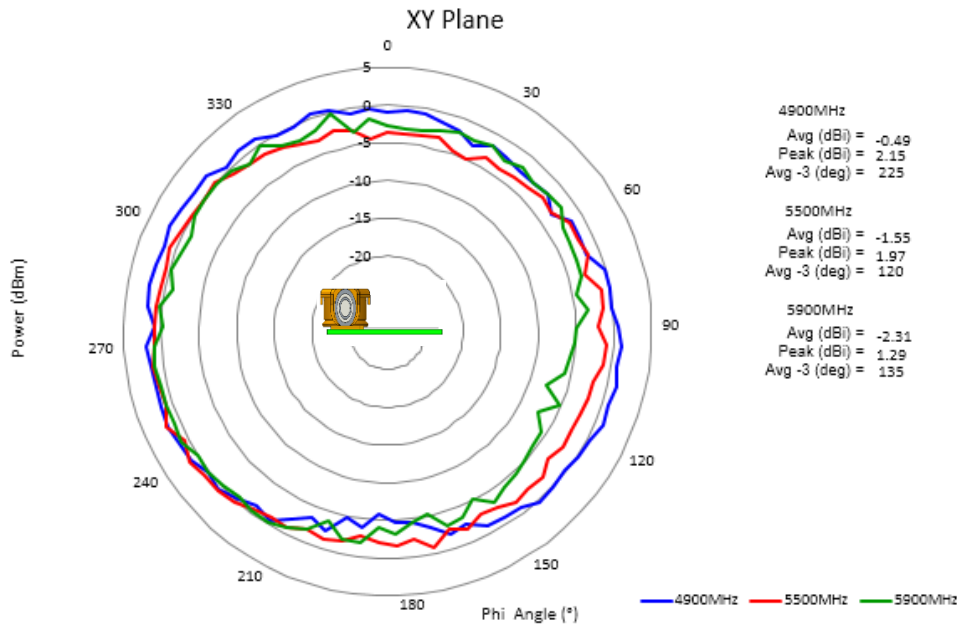
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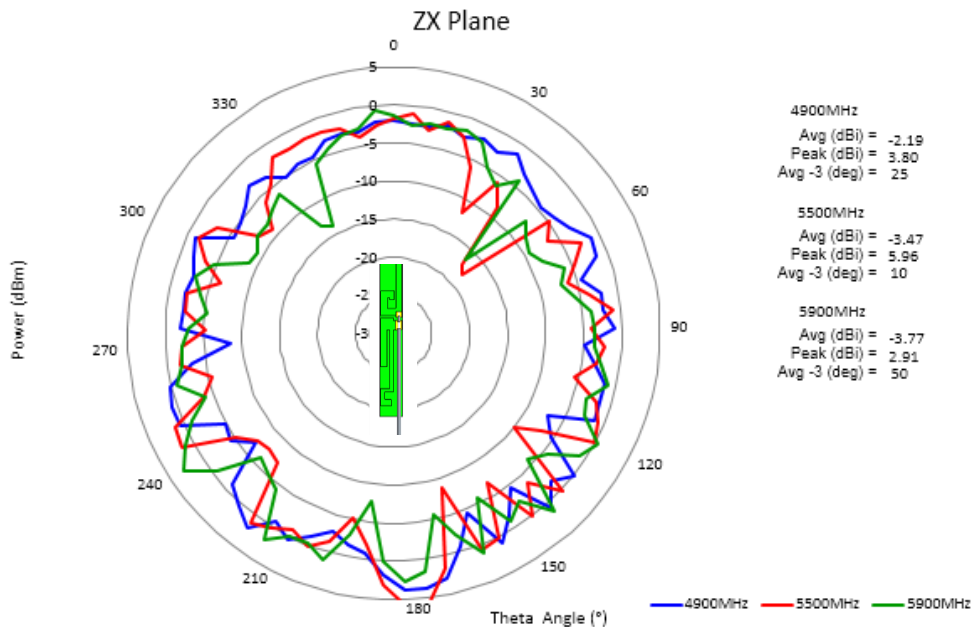
4900-5925MHz

### 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.