



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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Description: INTERNAL FPC DUAL-BAND WIFI

Series: Internal Antenna

PART NUMBER: W3315B0100

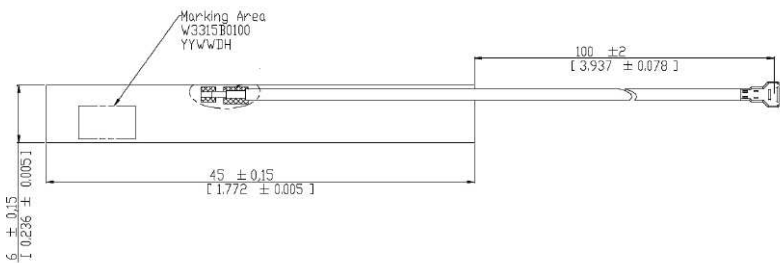


Features:

- 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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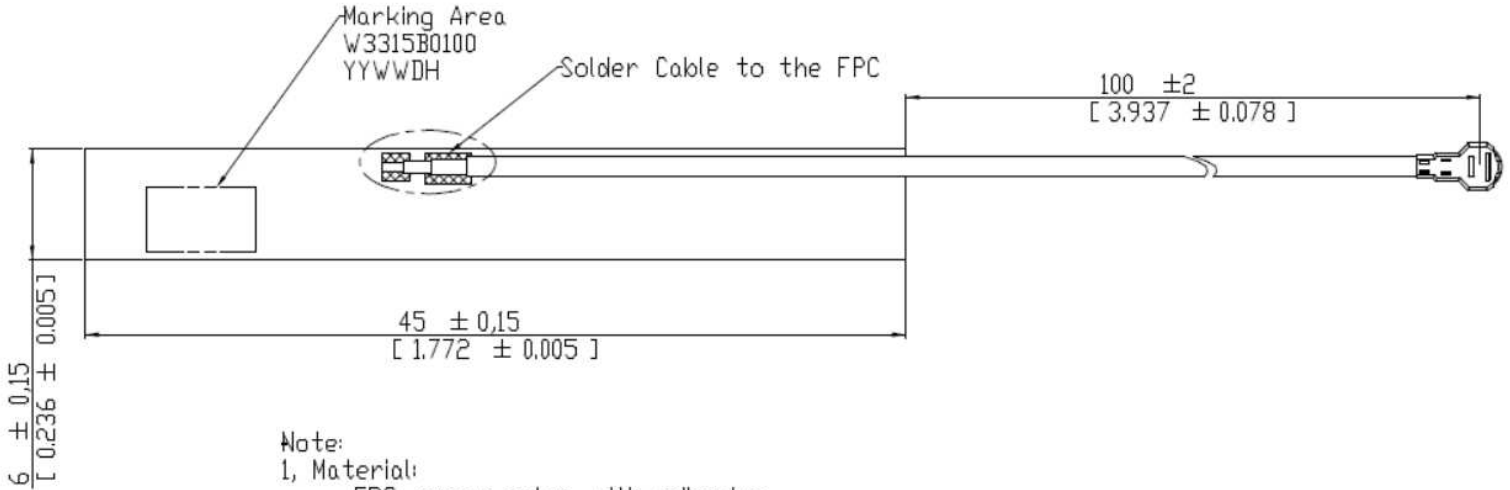
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MECHANICAL DRAWING



Note:

1. Material:
  - FPC, green color, with adhesive.
  - Cable:  $\varnothing$  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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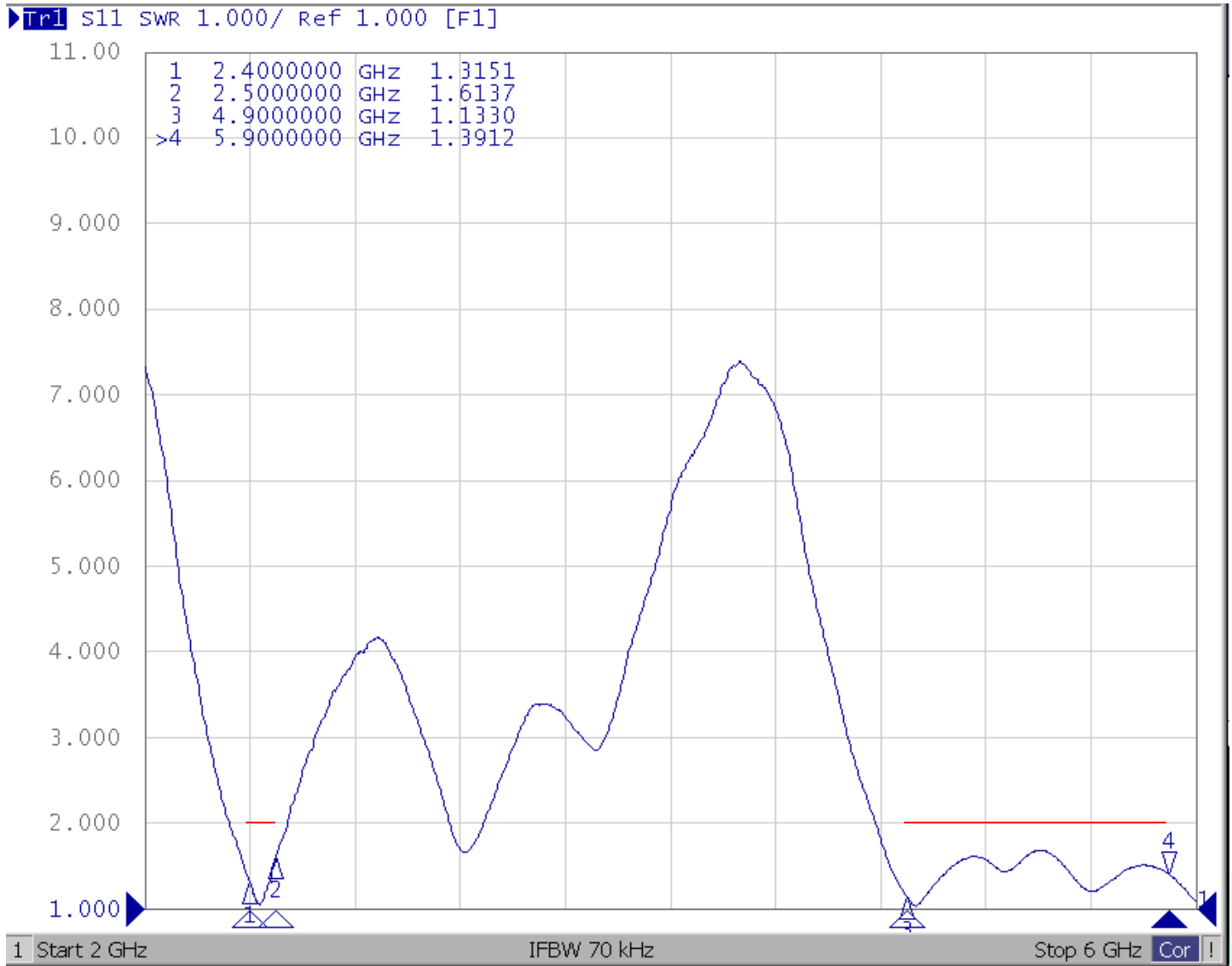
Series: Internal Antenna

PART NUMBER: W3315B0100

CHARTS

Measured with 2mm plastic (ABS) part.

VSWR



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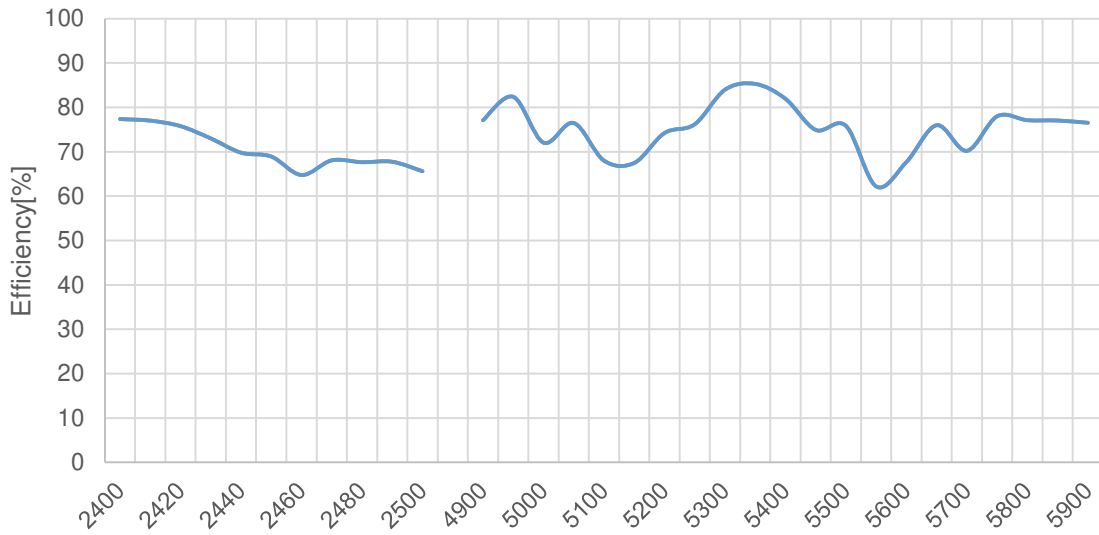
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CHARTS

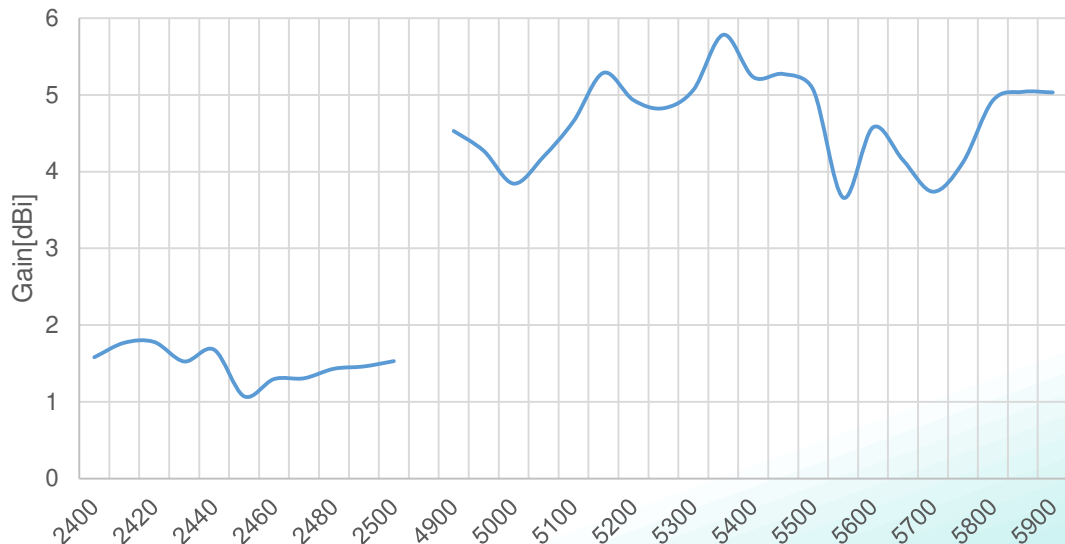
Efficiency(%)

W3315B0100



Gain(dBi)

W3315B0100



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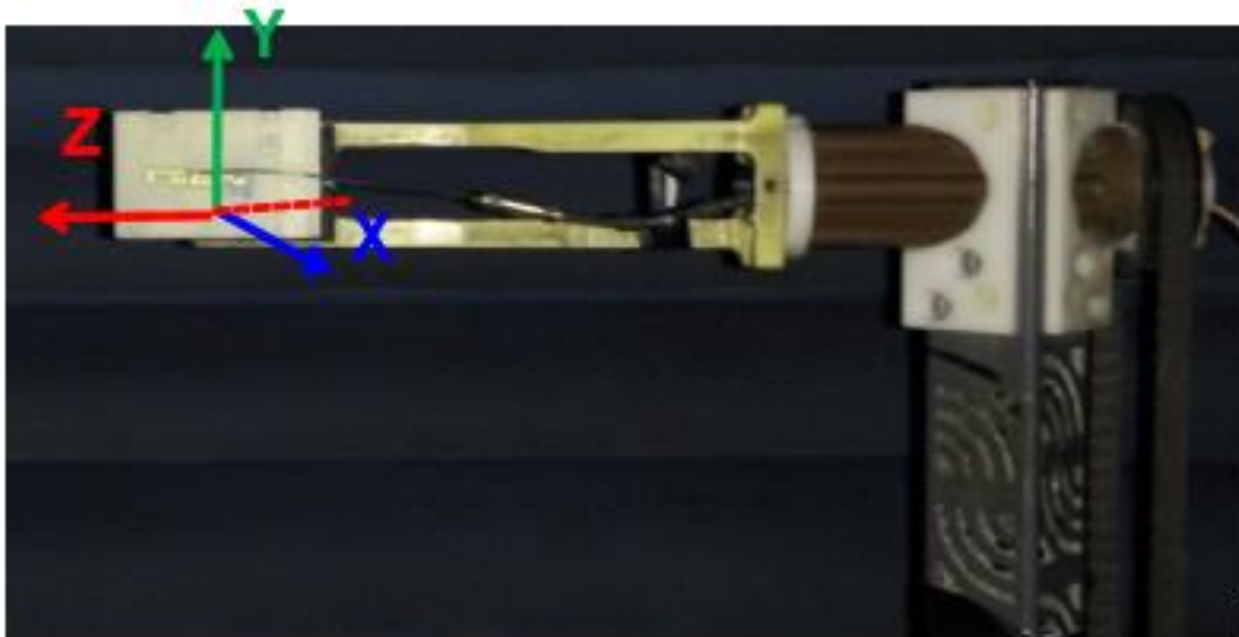
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## CHARTS

### 3D pattern

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



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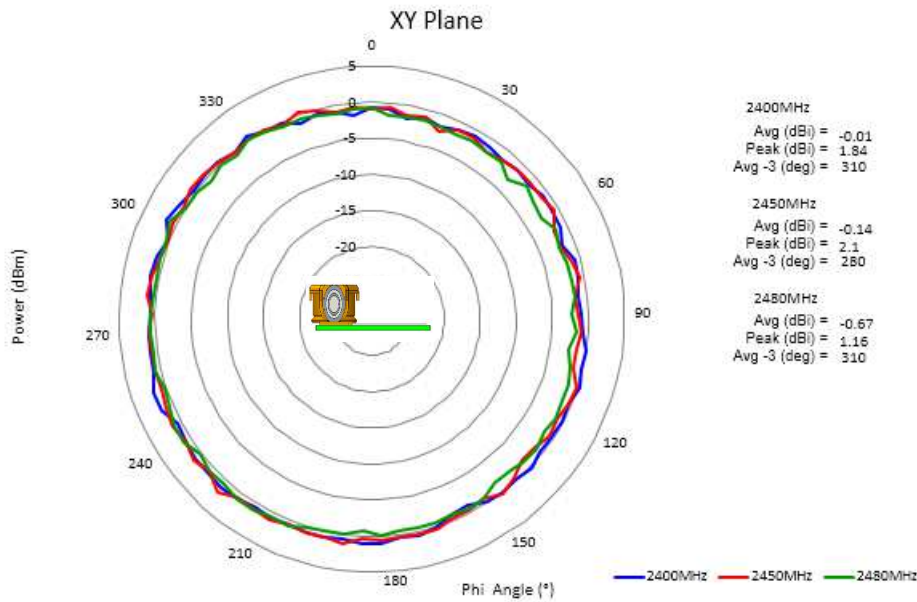
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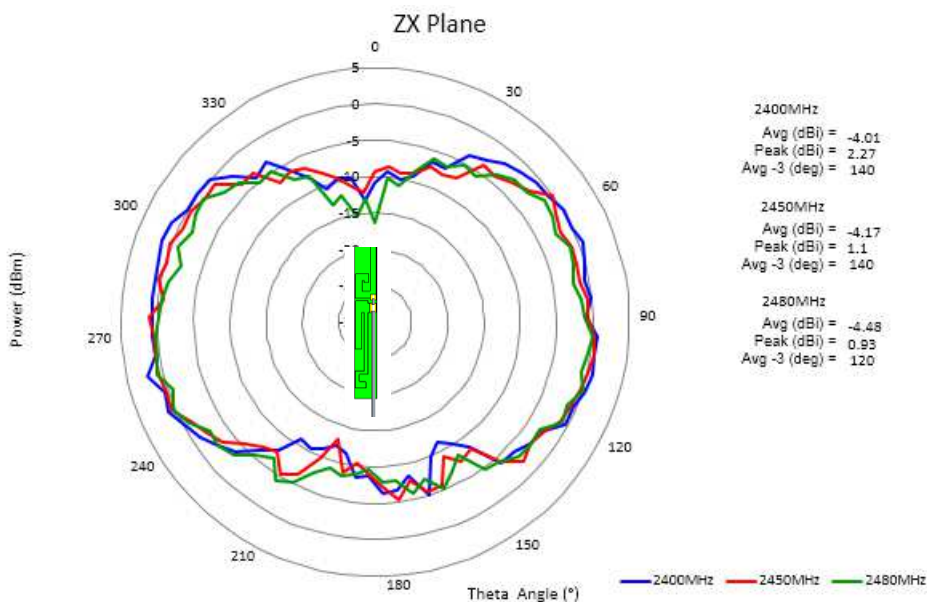
2400-2500MHz

CHARTS

H\_plane



E\_plane



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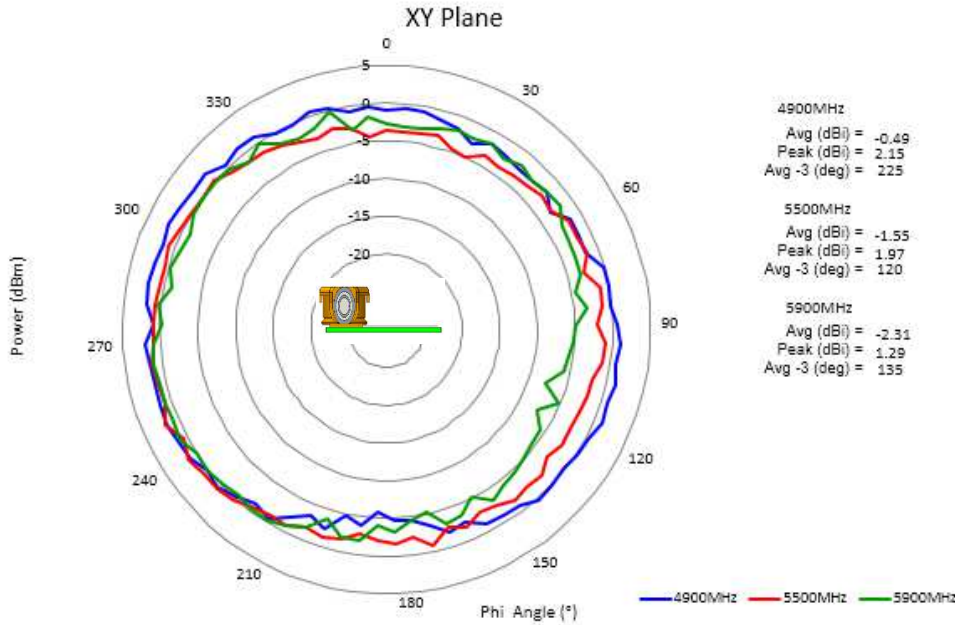
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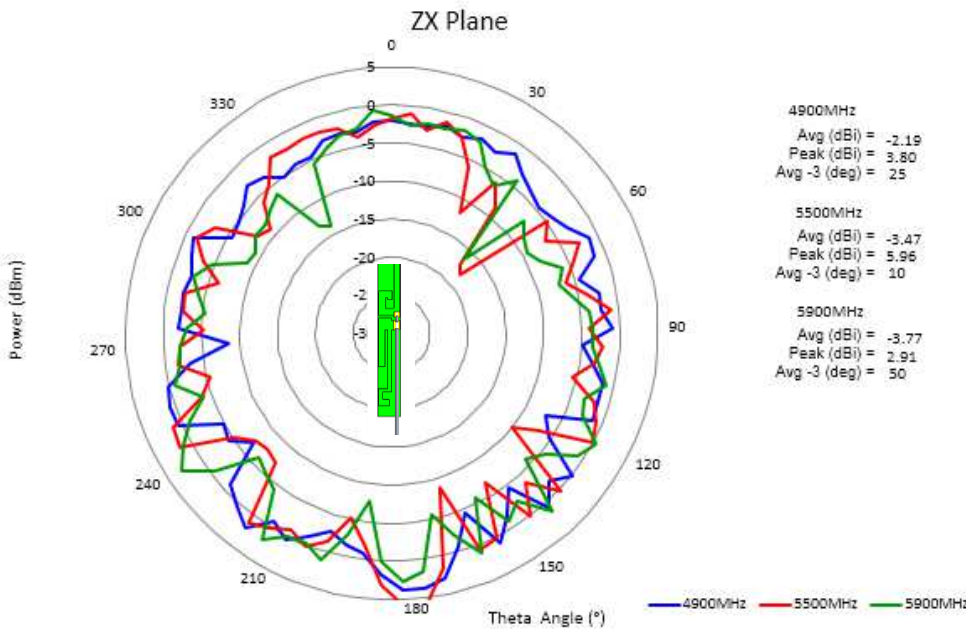
4900-5925MHz

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.

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