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Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

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

RoHS COMPLIANT

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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 20428-001R	I-PEX 20429-001E
W3315B0065MHF1	W3315BA0065		65mm	Equivalent of IPEX MHF 20278-112R-13, Compatible with **U.FL**	I-PEX 20279-001E or I-PEX 20441-001E-01
W3315B0100MHF1	W3315BA0100		100mm		
W3315B0200MHFIII	W3315BC0200	Φ0.81mm Black	200mm	Equivalent of IPEX MHFIII 20367-001R, Compatible with **W.FL**	I-PEX 20369-001E
W3315B0100MHF4	W3315BD0100		100mm	Equivalent of IPEX MHF4 20448-001R-081	I-PEX 20449-001E or I-PEX 20579-001E
W3315B0250MHF4L	W3315BD0250		250mm	Equivalent of IPEX 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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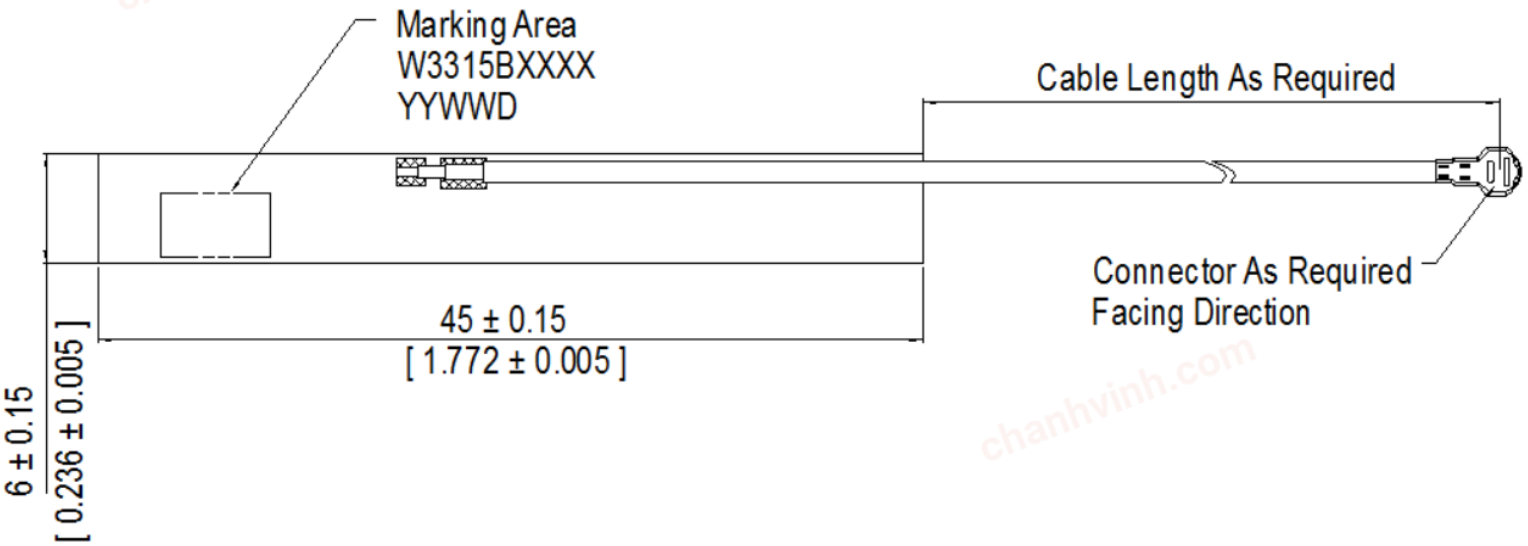
MECHANICAL DRAWING



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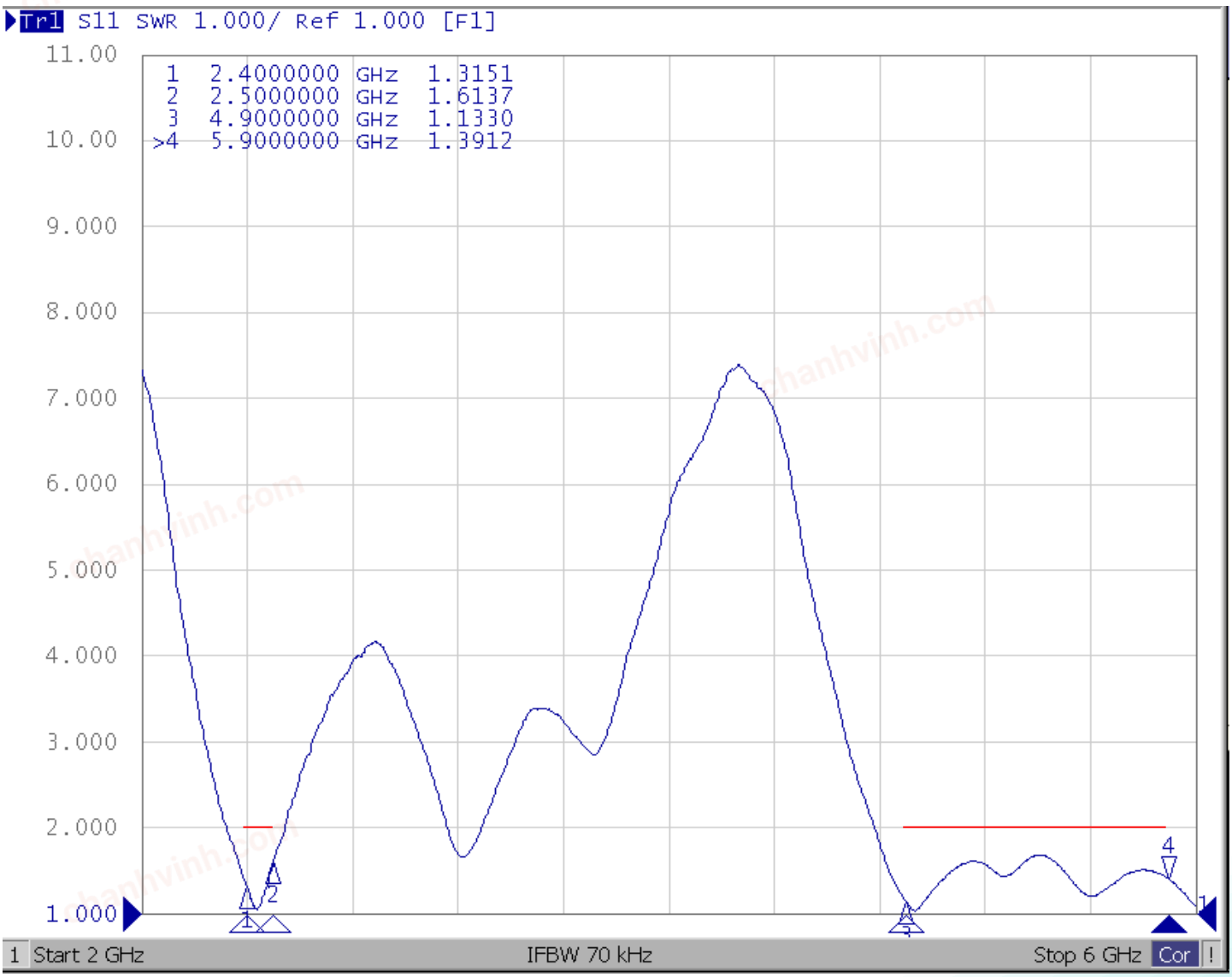
CHARTS

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

VSWR



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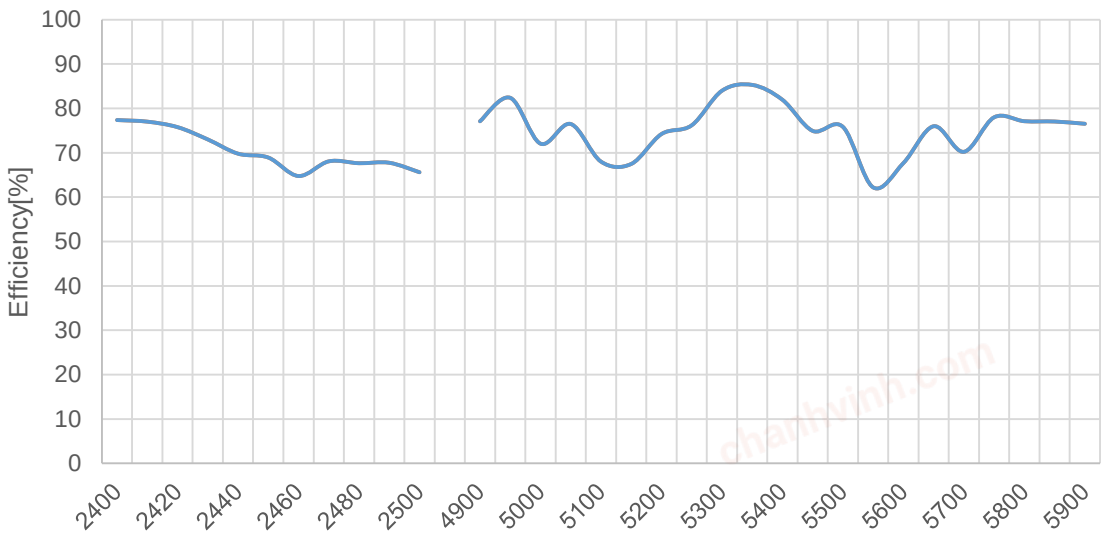
CHARTS

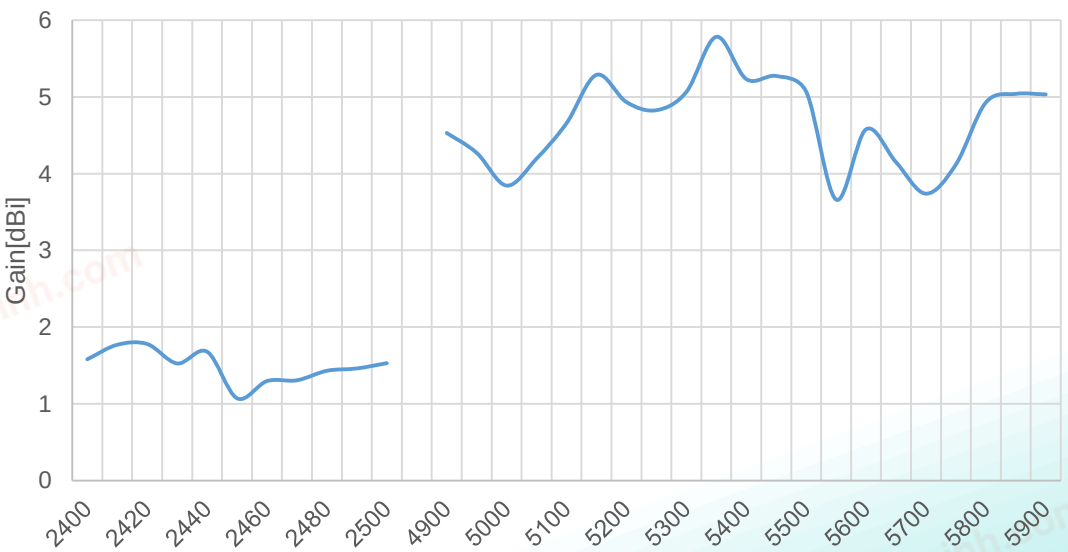
Efficiency(%)

W3315B0100



Gain(dBi)

W3315B0100



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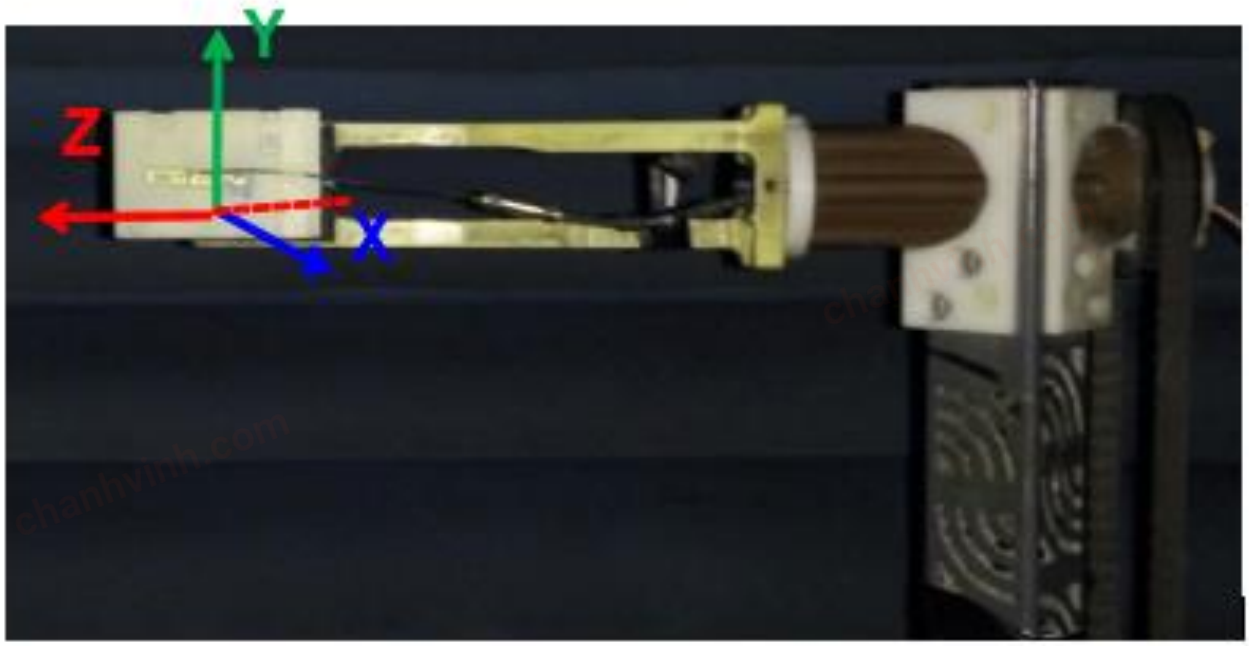
CHARTS

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

3D pattern

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



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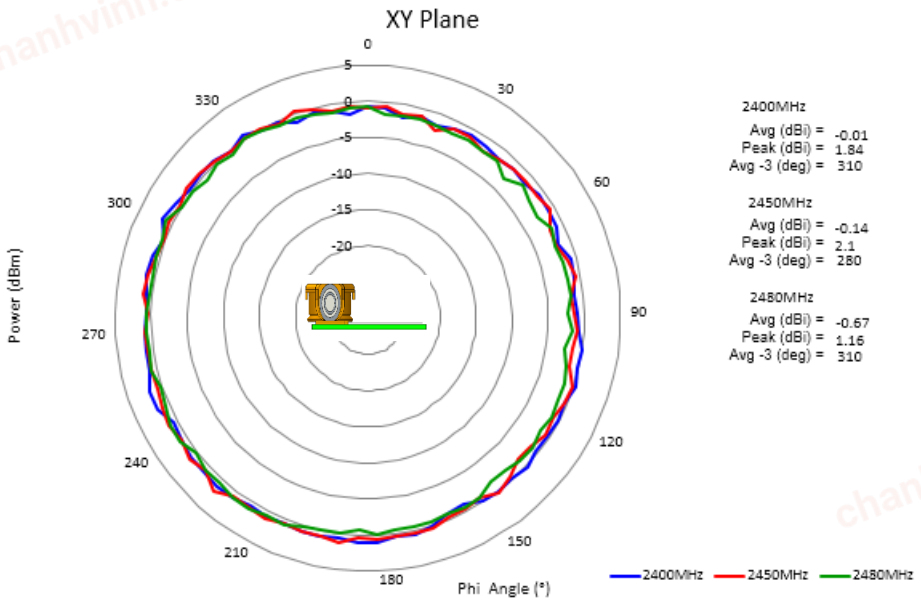
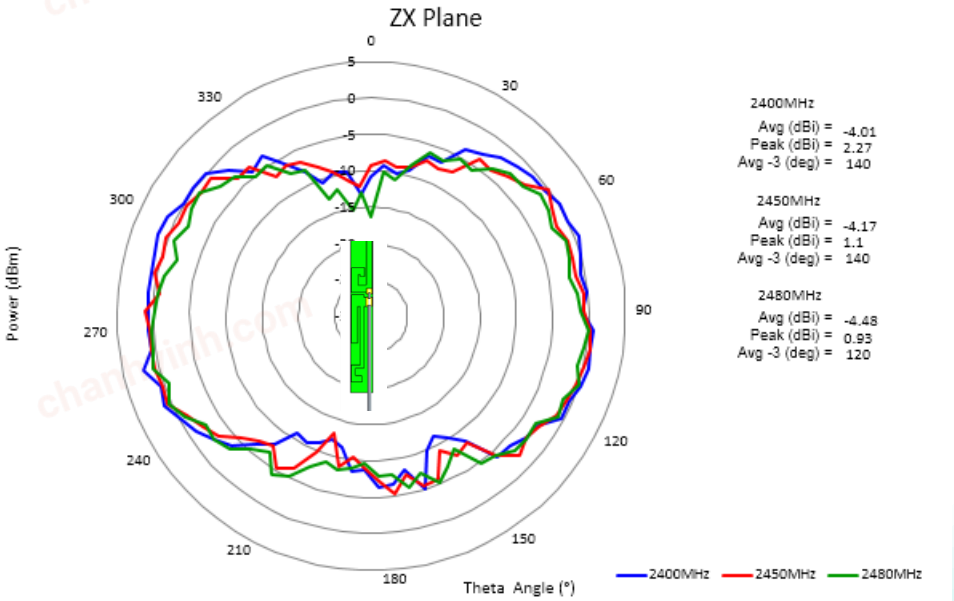
2400-2500MHz CHARTS

H_plane



E_plane



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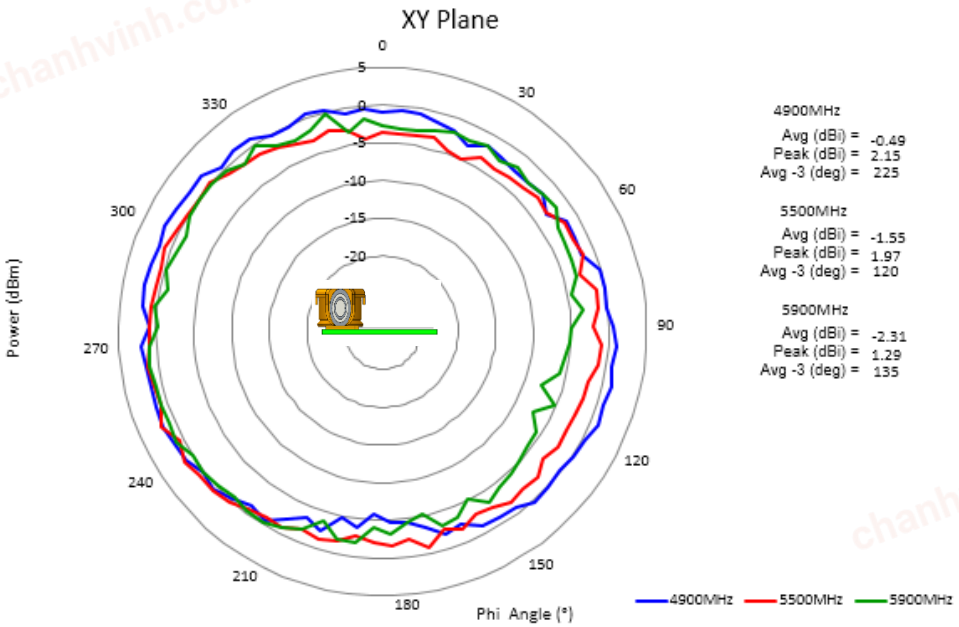
4900-5925MHz CHARTS

H_plane



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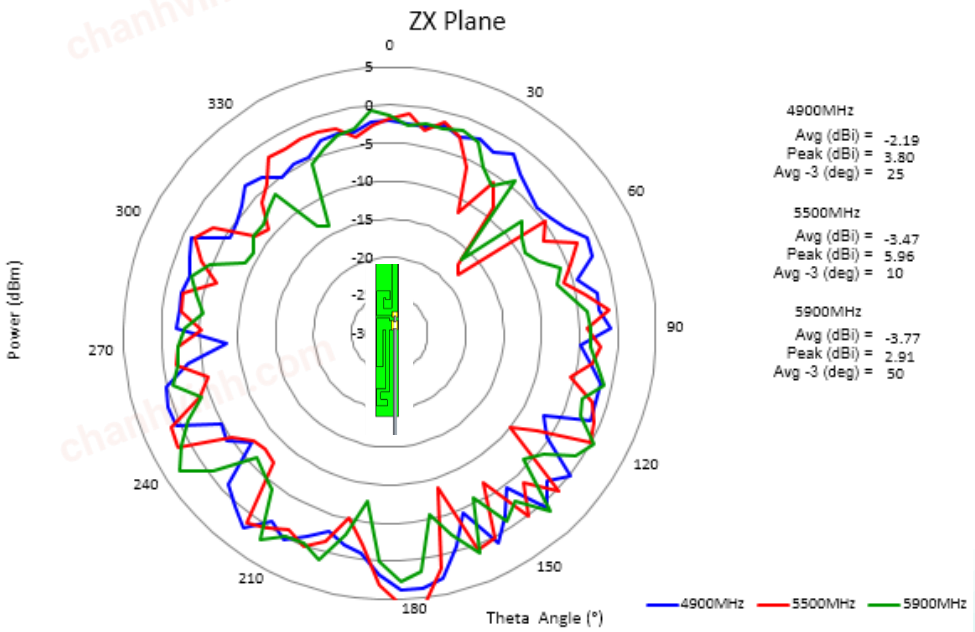

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PACKAGING

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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