

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: 2439

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

For more information:

Pulse Worldwide Headquarters  
15255 Innovation Drive #100  
San Diego, CA 92128  
USA  
Tel:1-858-674-8100

Pulse/Larsen Antennas  
18110 SE 34<sup>th</sup> St Bldg 2 Suite 250  
Vancouver, WA 98683  
USA  
Tel: 1-360-944-7551

Europe Headquarters  
Pulse GmbH & Do, KG  
Zeppelinstrasse 15  
Herrenberg, Germany  
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.  
99 Huo Ju Road(#29 Bldg,4<sup>th</sup> Phase  
Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998



Description: INTERNAL FPC DUAL-BAND WIFI

Series: Internal Antenna

PART NUMBER: W3315BXXXX

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,	I-PEX 20279-001E or I-PEX 20441-001E-01
W3315B0100MHF1	W3315BA0100		100mm	Compatible with <b>U.FL</b>	
W3315B0200MHFIII	W3315BC0200	Φ0.81mm Black	200mm	Equivalent of IPEX MHFIII 20367-001R, Compatible with <b>W.FL</b>	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	
W3315BD0150	W3315BD0150		150mm	Equivalent of I-PEX MHF4 20448-001R-081	

Description: INTERNAL FPC DUAL-BAND WIFI

Series: Internal Antenna

PART NUMBER: W3315BXXXX

### 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

Description: INTERNAL FPC DUAL-BAND WIFI

Series: Internal Antenna

PART NUMBER: W3315BXXXX

### 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

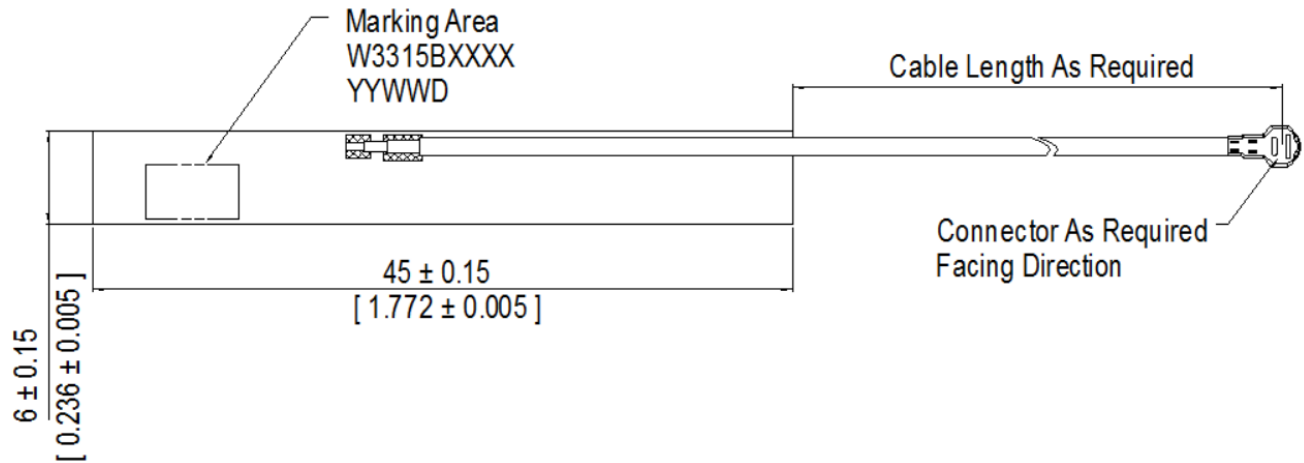
Issue: 2439

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

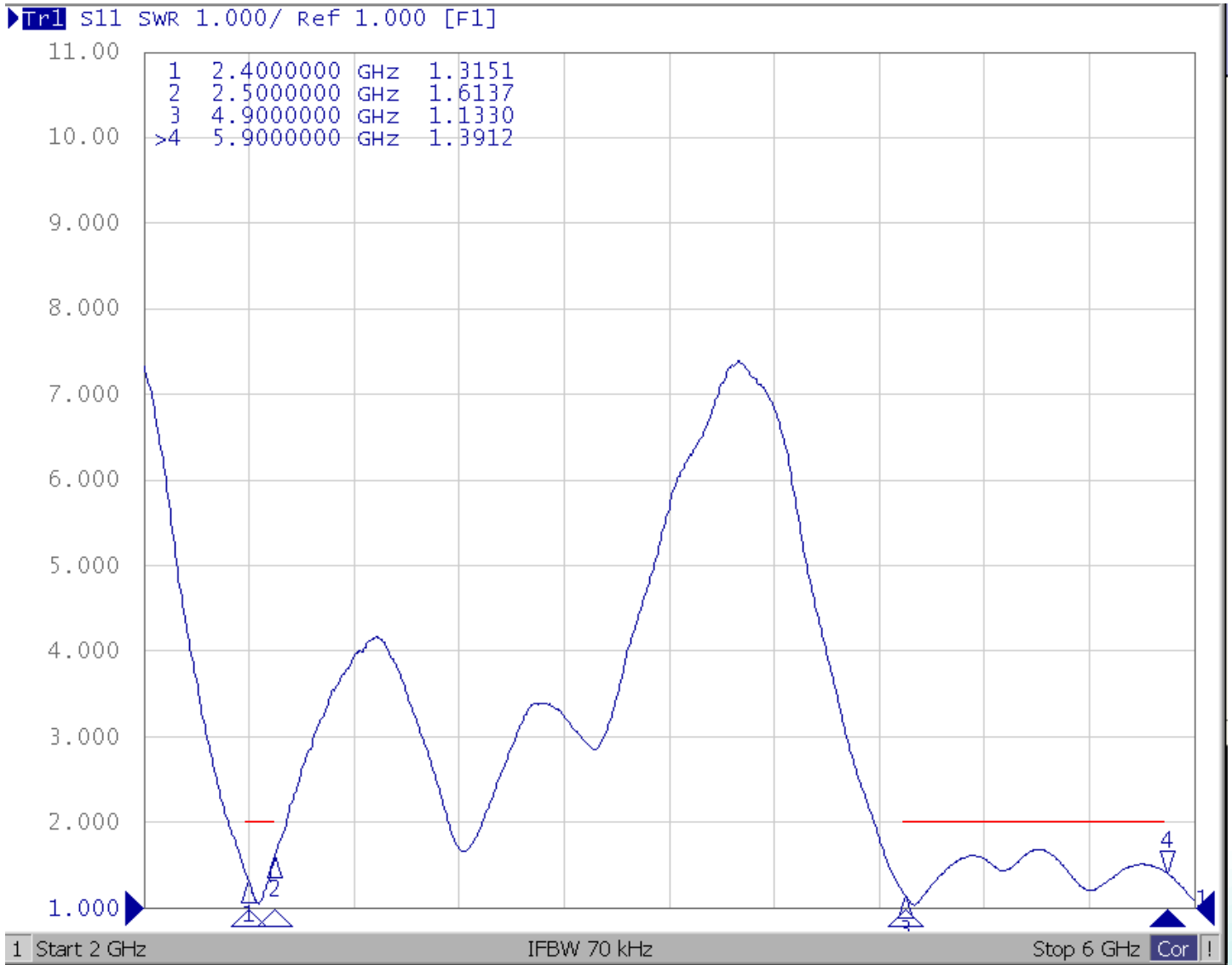
MECHANICAL DRAWING



CHARTS

W3315BD0150 Measured on a 2mm thick plastic (ABS) part.

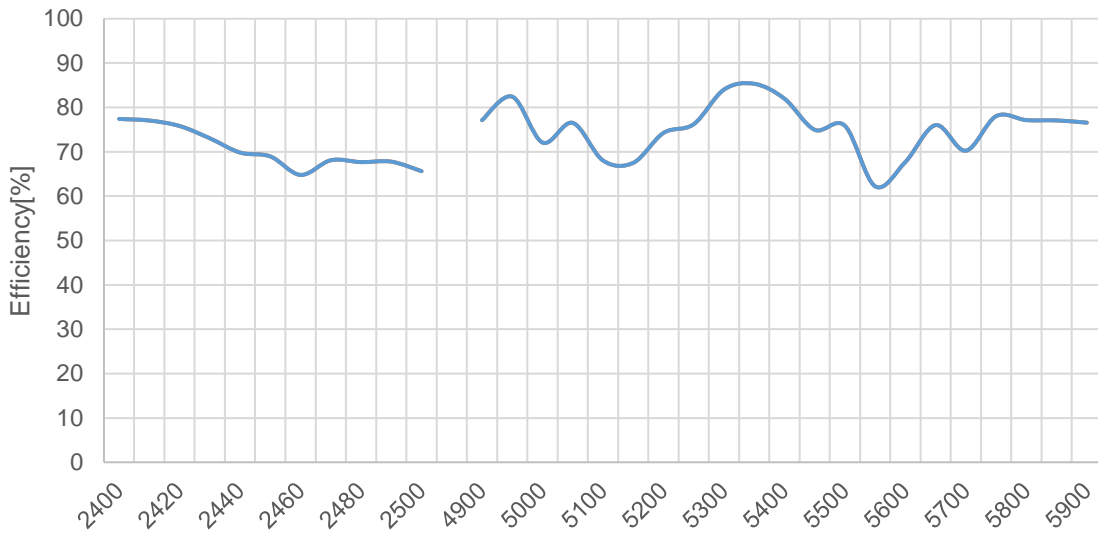
VSWR



CHARTS

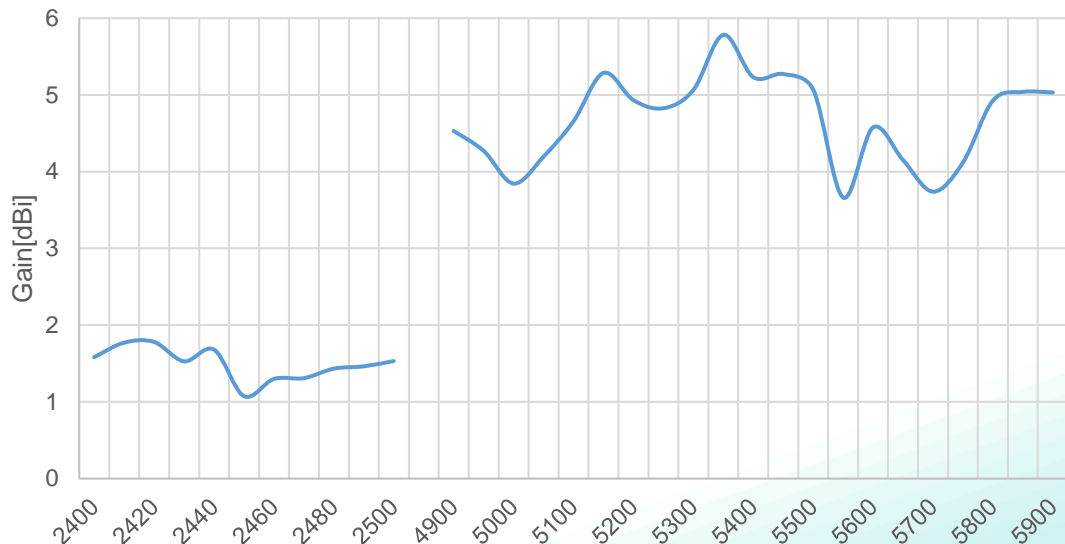
Efficiency(%)

W3315B0100



Gain(dBi)

W3315B0100



Issue: 2439

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

Description: INTERNAL FPC DUAL-BAND WIFI

Series: Internal Antenna

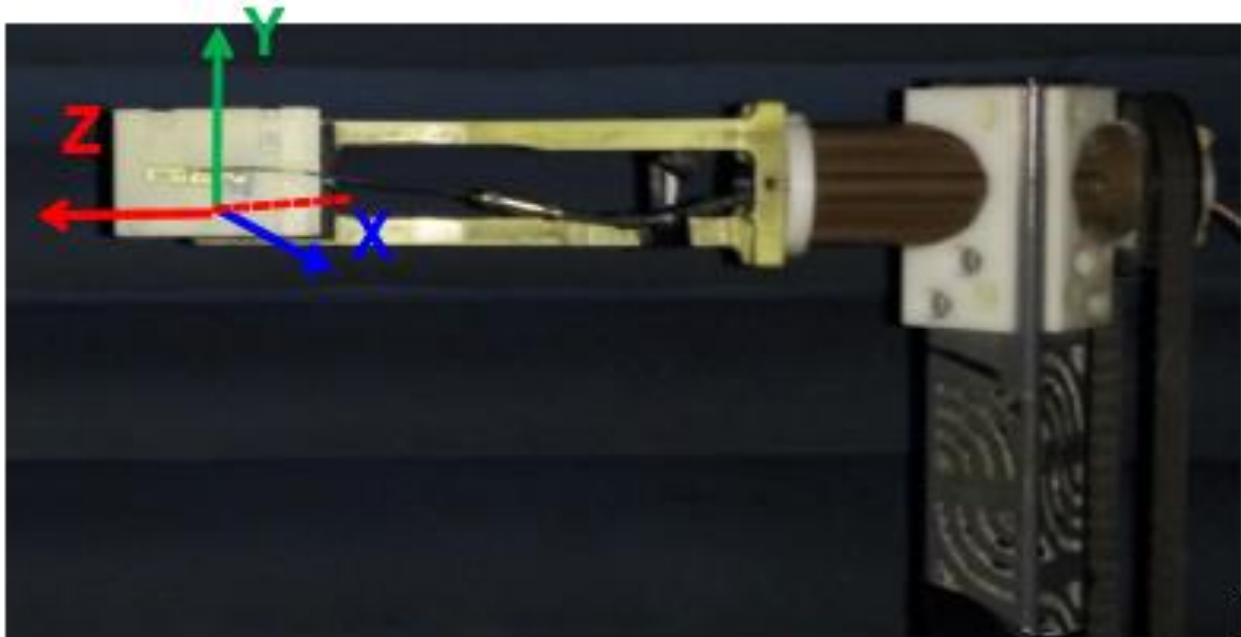
PART NUMBER: W3315BXXXX

## CHARTS

W3315BD0150 Measured on a 2mm thick plastic (ABS) part.

### 3D pattern

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

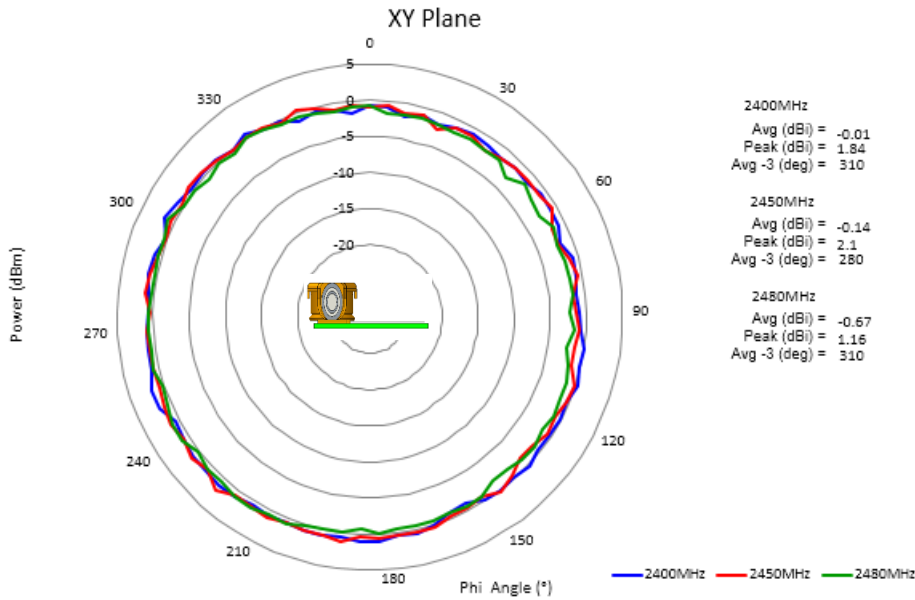




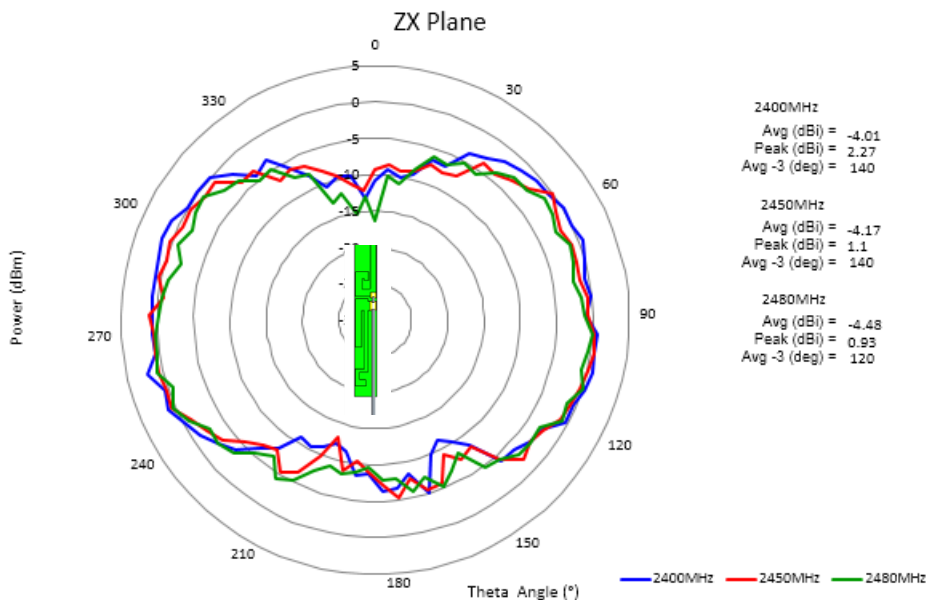
2400-2500MHz

CHARTS

H\_plane



E\_plane



Issue: 2439

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

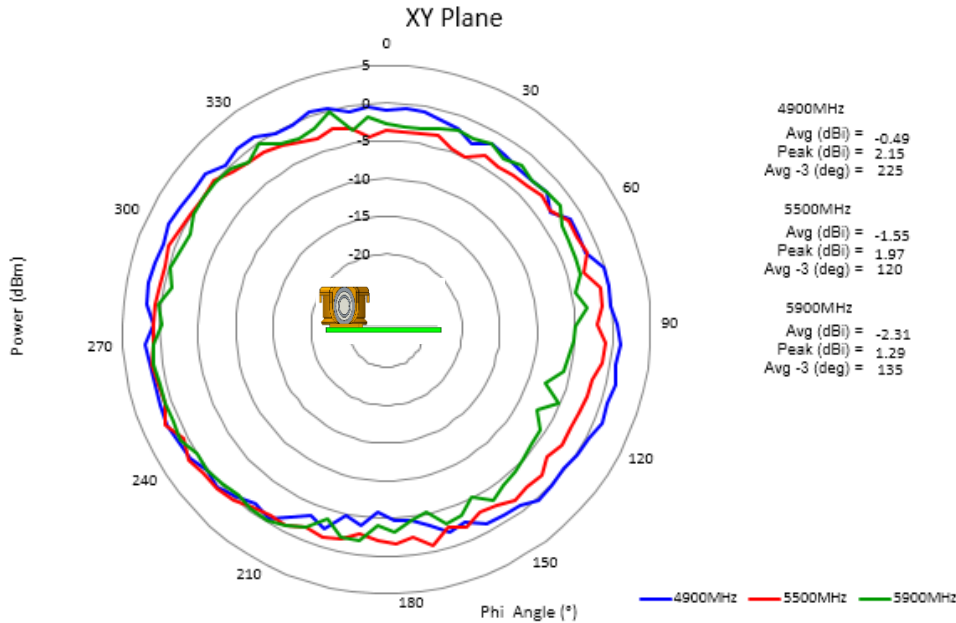
CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

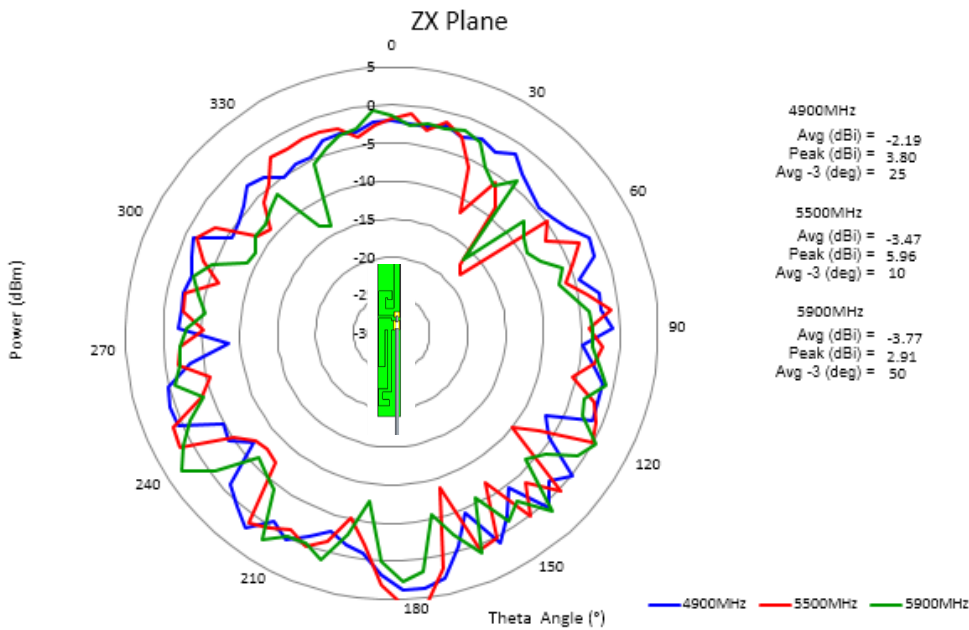
4900-5925MHz

CHARTS

H\_plane



E\_plane



Issue: 2439

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

Description: INTERNAL FPC DUAL-BAND WIFI

Series: Internal Antenna

PART NUMBER: W3315BXXXX

## 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.