



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

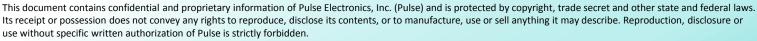
Applications:

- WiFi, Bluetooth, BLE, ZigBee
- DSRC
- 2.4 and 5GHz proprietary radios
- IoT and M2M terminals
- Security, Transportation

All dimensions are in mm / inches

Issue: 1719

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



For more information: Pulse Worldwide Headquarters

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This document covers all product variants of the following product family

Antennas	Cable Type	Cable Length	Connector	Suggested Receptacle
W3315B0100	Ф1.13mm Black	100mm	IPEX MHF –A13 20428-001R	I-PEX 20429-001E
W3315B0065MHF1		65mm	Equivalent of IPEX MHF 20278-112R-13, Compatible with U.FL	I-PEX 20279-001E or I-PEX 20441-001E-01
W3315B0100MHF1		100mm		
W3315B0200MHFIII	Ф0.81mm Black	200mm	Equivalent of IPEX MHFIII 20367-001R, Compatible with W.FL	I-PEX 20369-001E
W3315B0100MHF4		100mm	Equivalent of IPEX MHF4 20448-001R-081	I-PEX 20449-001E or I-PEX 20579-001E

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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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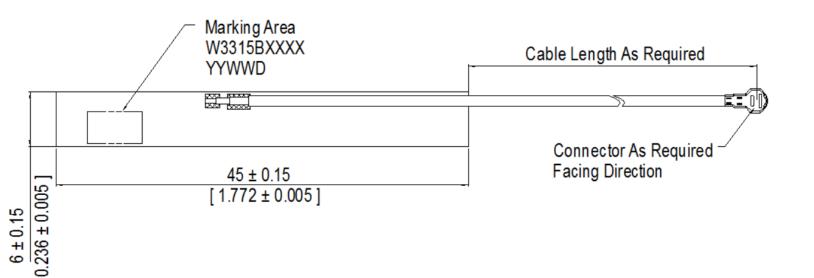




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MECHANICAL DRAWING



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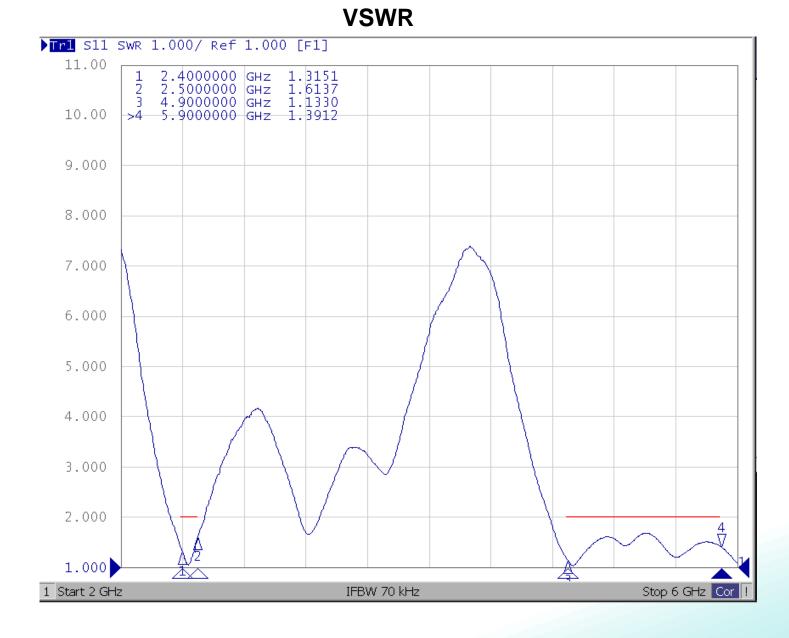


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CHARTS

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



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Gain[dBi] 5300 5400

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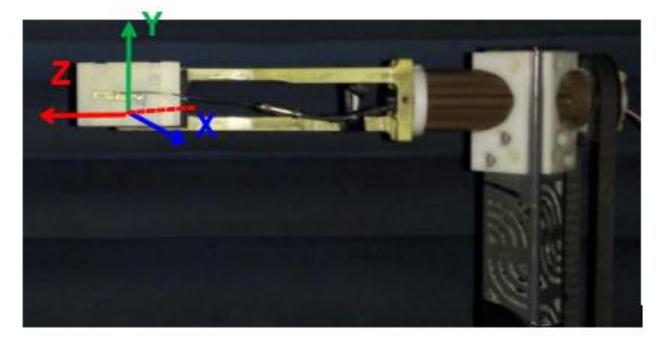
PART NUMBER: W3315BXXXX

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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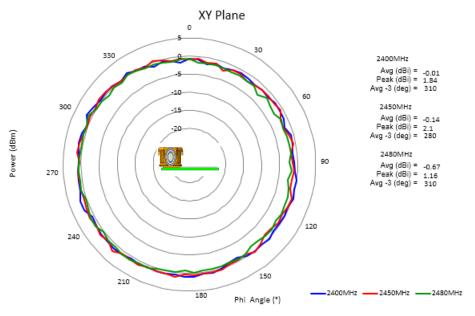
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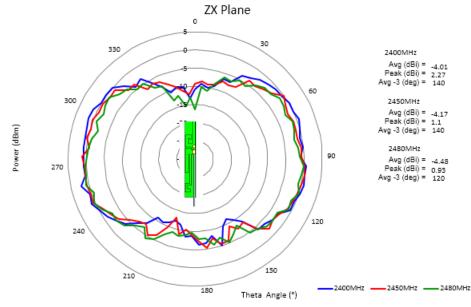
2400-2500MHz

CHARTS

H_plane



E_plane



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4900-5925MHz **CHARTS** H_plane XY Plane 0 330 4900MHz Avg (dBi) = -0.49 Peak (dBi) = 2.15 Avg -3 (deg) = 225 300 5500MHz Avg (dBi) = -1.55 Peak (dBi) = 1.97 Avg -3 (deg) = 120 -20 Power (dBm) 5900MHz 90 Avg (dBi) = -2.31 Peak (dBi) = 1.29 270 Avg -3 (deg) = 135 120 240 150 210 5500MHz ____5900MHz 4900MHz 🔸 180 Phi Angle (°) E_plane ZX Plane 0 30 330 4900MHz Avg (dBi) = -2.19 Peak (dBi) = 3.80 Avg -3 (deg) = 25 60 300 5500MHz Avg (dBi) = -3.47 Peak (dBi) = 5.96 Avg -3 (deg) = 10 Power (dBm) -2 5900MHz 90 (з Avg (dBi) = -3.77 270 Peak (dBi) = 2.91 Avg -3 (deg) = 50 120 240 150 210 180 4900MHz --5500MHz - 5900MHz Theta Angle (°)

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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.

