

Description: ISM 868/915MHz PCB Antenna with coax feed

## Series: Internal Antenna

## PART NUMBER: W3312XXXXXX

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**Features:** 

863-928MHz

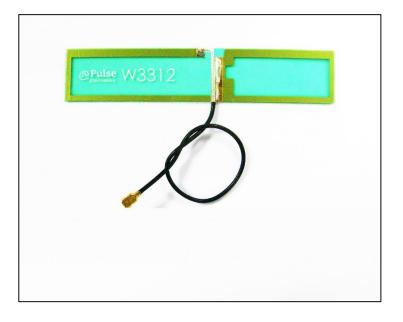
Size 75x15 mm

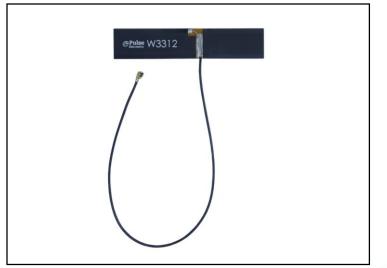
 Flexible PCB thickness 0.1 mm with adhesive tape

adhesive tape on back side

 100mm 1.13mm OD coax cable with U.FL connector

Mounting with 3M467





### All dimensions are in mm / inches

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# **Applications:**

- Devices with ISM 868MHz / 915MHz radios
- M2M, IoT
- Metering, Industry automation
- Instrumentation



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## **ELECTRINIC SPECIFICATIONS**

Frequency	863-928	MHz
Nominal Impedance	50	Ω
Return loss	-8	dB
Efficiency	45	%
Peak Gain	0.8	dBi +/- 1 dB
Polarization:	linear	
Power withstanding	2	W

Note: All RF data measured with 1.5mm polycarbonate plate to simulate loading effect of real device housing.

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This document covers all product variants of the following product family

Antennas	Color	Connector
W3312B0100	Green	1.13mm OD coax cable with U.FL connector
W3312BB0100	BLACK	

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MECHANICAL SPECIFICATIONS				
PCB type	Flexible			
Radiator size	15[0.59] x 75[2.95] mm[inch]			
Adhesive	3M467			
Total thickness (Radiator+adhesive)	0.1[0.004] mm[inch]			
Weight	0.74g			
Cable type	OD 1.13mm coax			
Cable length	100[3.94] mm[inch]			
Connector	U.FL compatible			

## **ENVIRONMENTAL SPECIFICATIONS**

Operating temperature

-40/+85 °C

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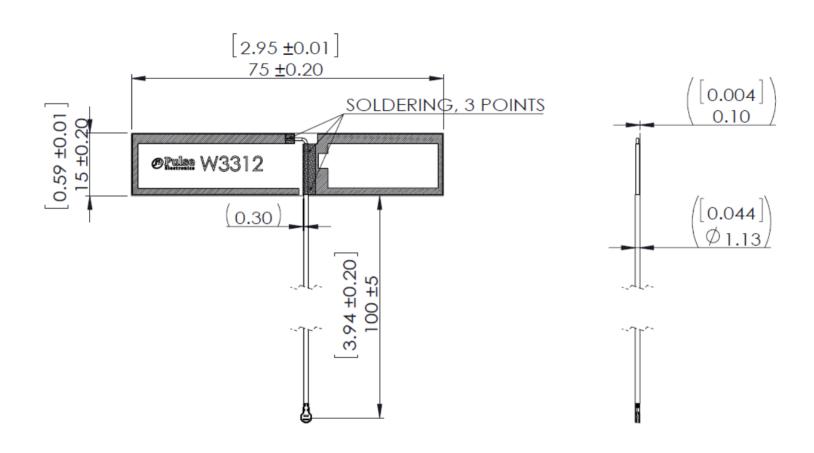


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## **MECHANICAL DRAWING**



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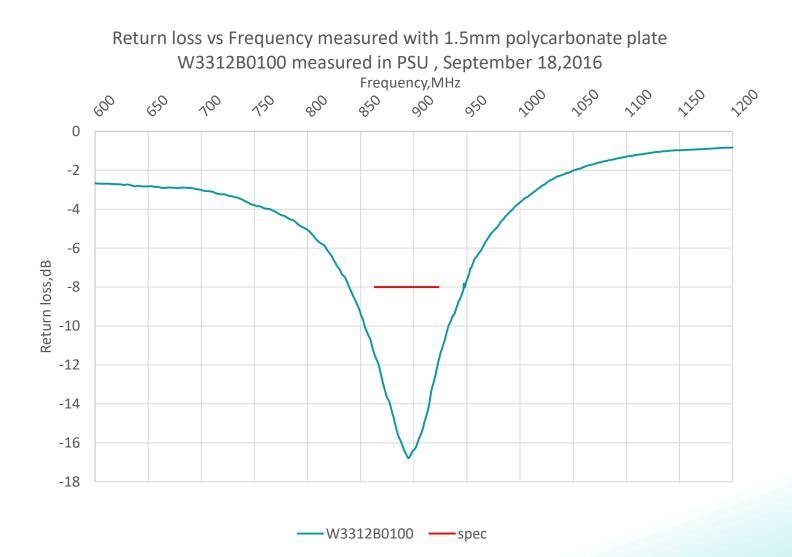
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## **CHARTS**

## **Return loss**



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Series: Internal Antenna

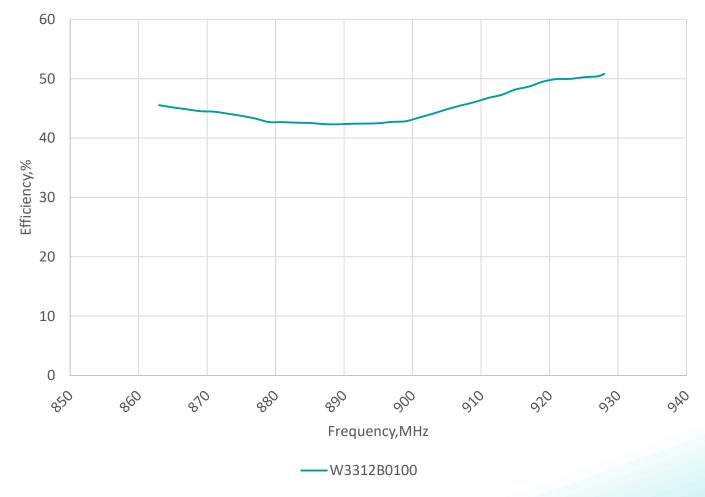
**Description**: ISM 868/915MHz PCB Antenna with coax feed

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## CHARTS

# Efficiency

Efficiency vs Frequency measured with 1.5mm polycarbonate plate W3312B0100 measured in PSU ,September 18,2016



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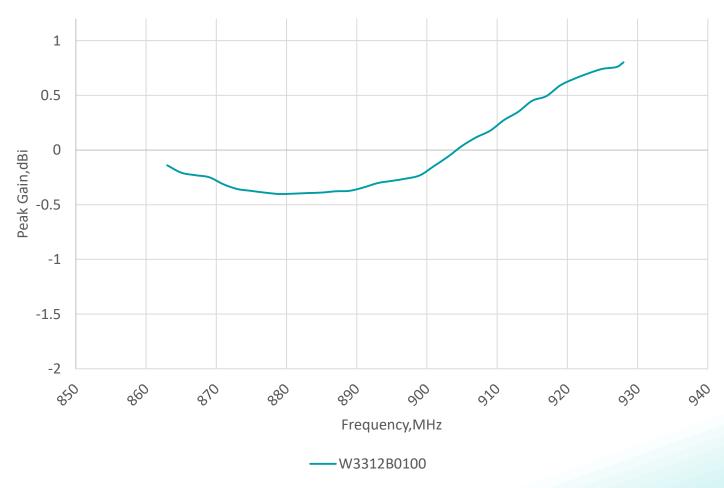
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## CHARTS

## Peak Gain

Peak Gain vs Frequency measured with 1.5mm polycarbonate plate W3312B0100 measured in PSU,September 18,2016



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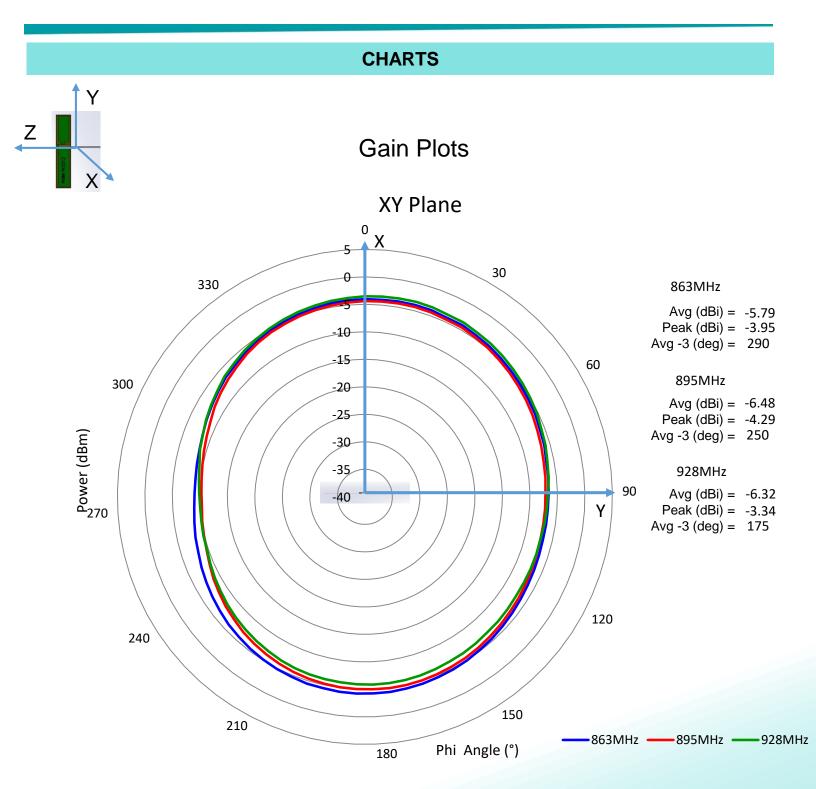


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TECHNICAL DATA SHEET

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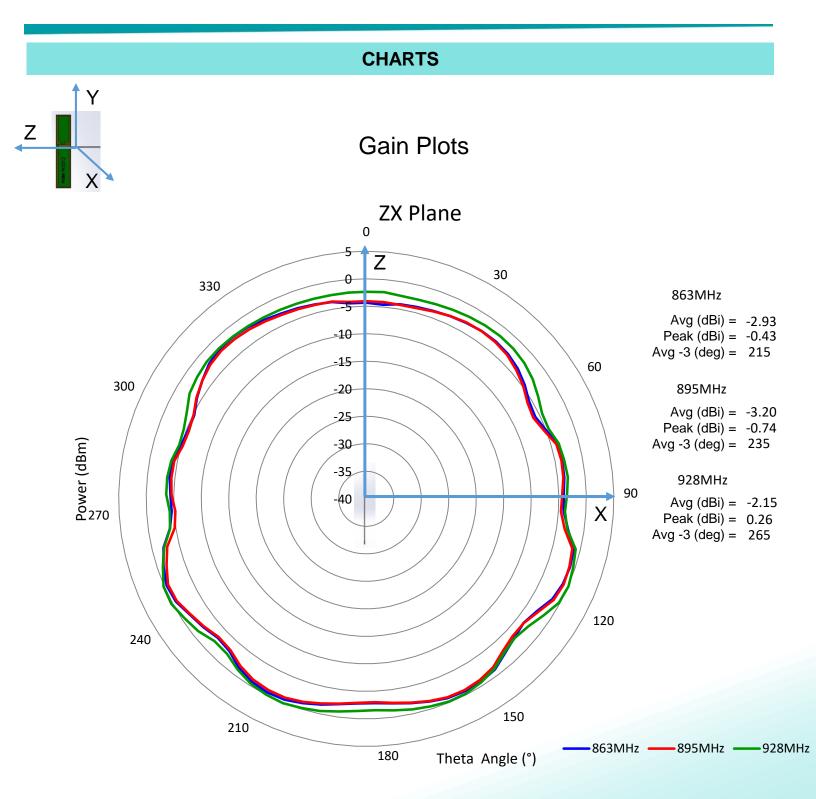


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ROHS 10

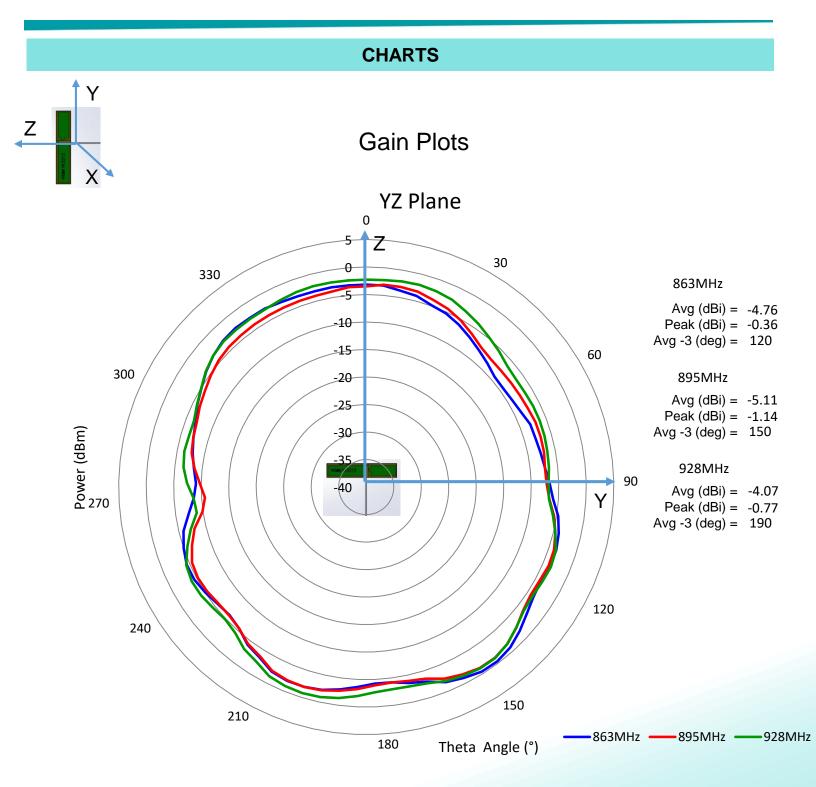


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## PACKAGING

10PCS/PE bag 10 PE bag/foam bag 15 foam bag/carton box

Total 1500PCS/carton box





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