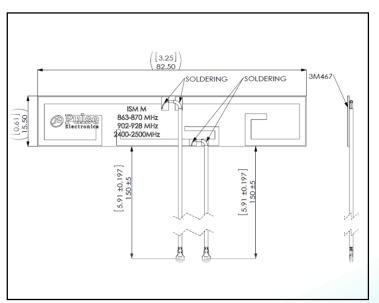


Description: ISM868/915MHz, 2.4GHz Antenna

## **Series: Internal**

PART NUMBER: W3332B0150





### All dimensions are in mm / inches

## Features:

- Tri-band dual feed ISM antenna
- PCB radiator with two pigtail coax feeds (815/915MHz and 2.4GHz)
- Size 15.5x82.5x0.5mm
- U.FL compatible connectors

# **Applications:**

- Devices using ISM band radios 868MHz, 915MHz, 2.4GHz
- Machine to Machine, IoT
- Data terminals and routers using ISM bands
- 2.4-2.5GHz band also applicable for Bluetooth, BLE Zigbee. WiFi



### Issue: 1649

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Description: ISM868/915MHz, 2.4GHz Antenna

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## **ELECTRICAL SPECIFICATIONS**

Cable 1		
Frequency	863-928	MHz
Nominal Impedance	50	Ω
Return loss(max)	-5	dB
Peak Gain	0.2	dBi
Average Efficiency	55	%
Cable 2		
Frequency	2400-2500	MHz
Frequency Nominal Impedance	2400-2500 50	MHz Ω
Nominal Impedance	50	Ω
Nominal Impedance Return loss(max)	50 -10	Ω dB
Nominal Impedance Return loss(max) Peak Gain	50 -10 4.1	Ω dB dBi
Nominal Impedance Return loss(max) Peak Gain	50 -10 4.1	Ω dB dBi

@2400-2500MHz

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2

dB

-11



Description: ISM868/915MHz, 2.4GHz Antenna

## **Series: Internal**

### PART NUMBER: W3332B0150

MECHANICAL SPECIFICATIONS		
PCB material	FR4	
PCB thickness	0.5 mm	
Adhesive	3M467	
Cable type	OD 1.13mm coax	
Cable length	150 mm	
Connector	U.FL compatible	

## **ENVIRONMENTAL SPECIFICATIONS**

Operating temperature

-40/+85 °C

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3

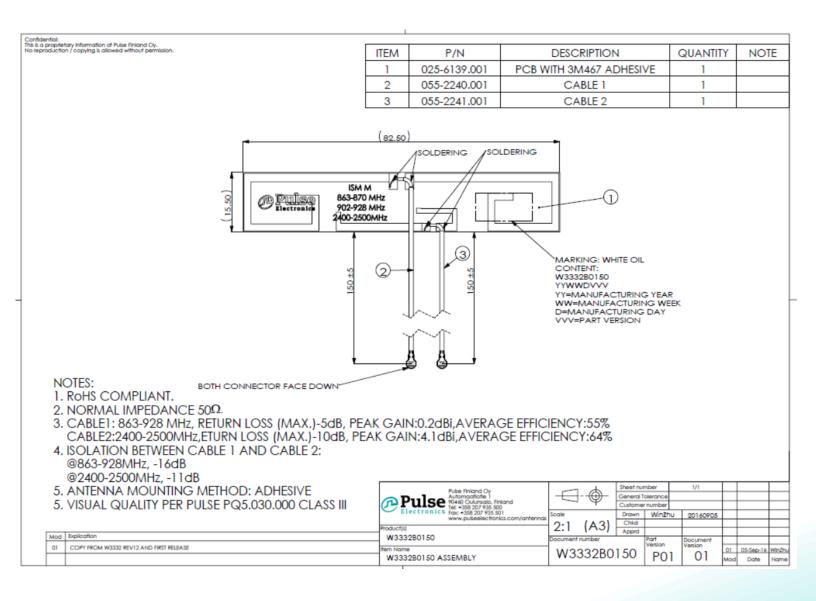


Description: ISM868/915MHz, 2.4GHz Antenna

## **Series: Internal**

PART NUMBER: W3332B0150

## **MECHANICAL DRAWING**



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4



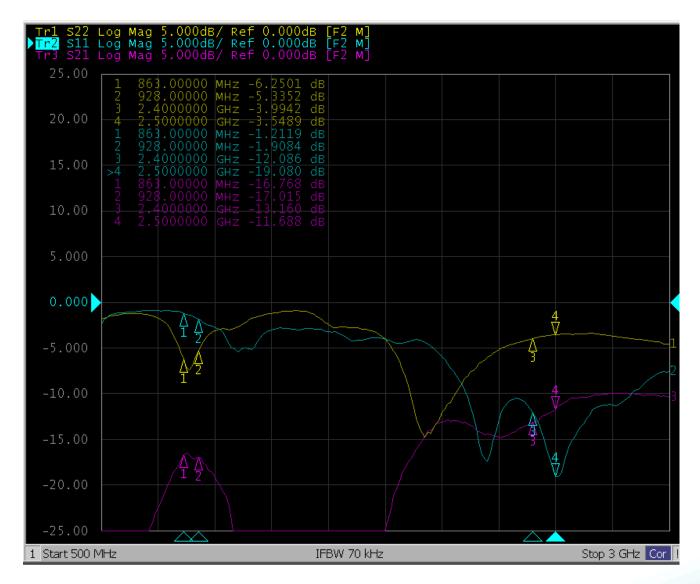
Description: ISM868/915MHz, 2.4GHz Antenna

## **Series: Internal**

PART NUMBER: W3332B0150

## CHARTS

# Return loss



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Description: ISM868/915MHz, 2.4GHz Antenna

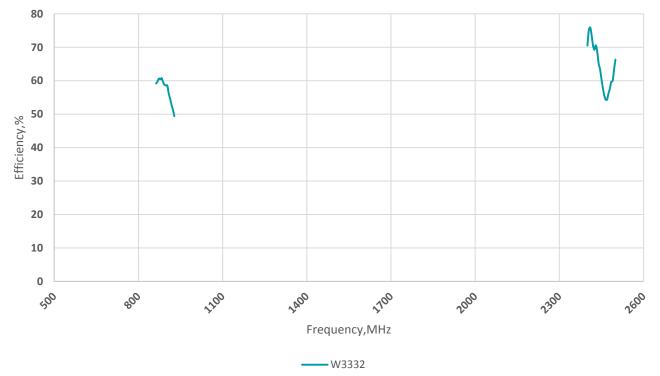
## **Series: Internal**

PART NUMBER: W3332B0150

## CHARTS

# Efficiency

Efficiency vs Frequency measured in free space W3332 measured in PSU



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Description: ISM868/915MHz, 2.4GHz Antenna

## **Series: Internal**

PART NUMBER: W3332B0150

## CHARTS

Peak Gain

Peak Gain vs Frequency measured in free space W3332 measured in PSU

24,00

2700

Frequency,MHz

2000

2300

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Peak Gain,,dBi

0.5

0

500

-0.5

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800

2200



7

2600

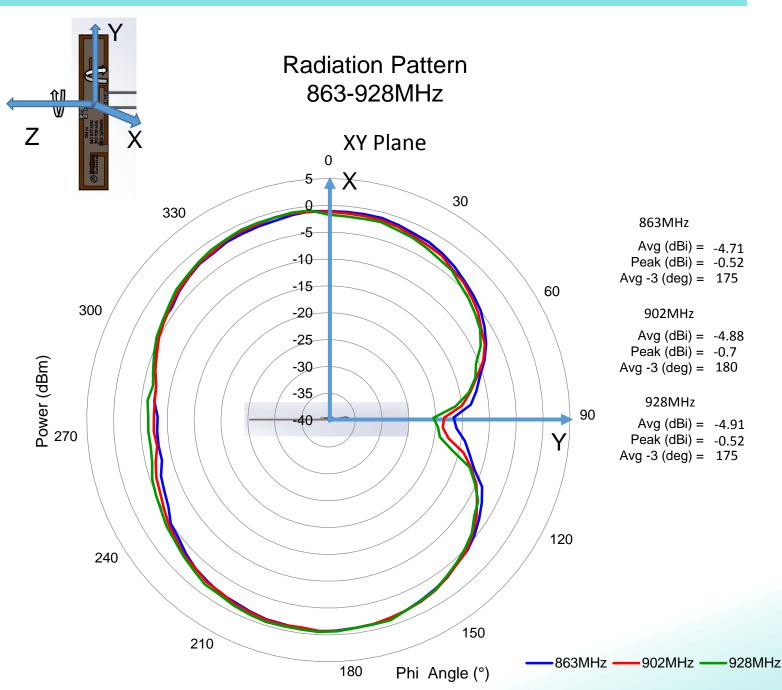


Description: ISM868/915MHz, 2.4GHz Antenna

## **Series: Internal**

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### CHARTS



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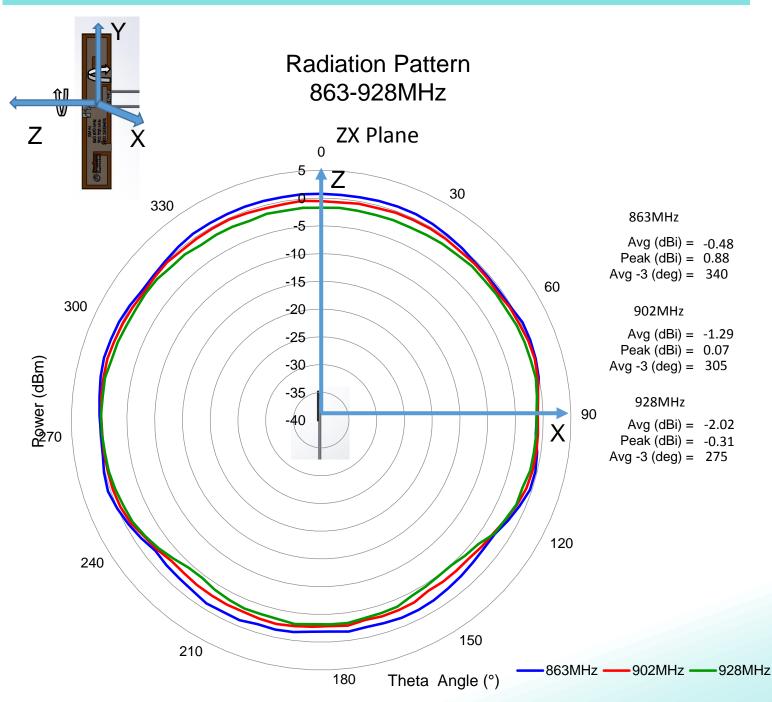


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### CHARTS



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9

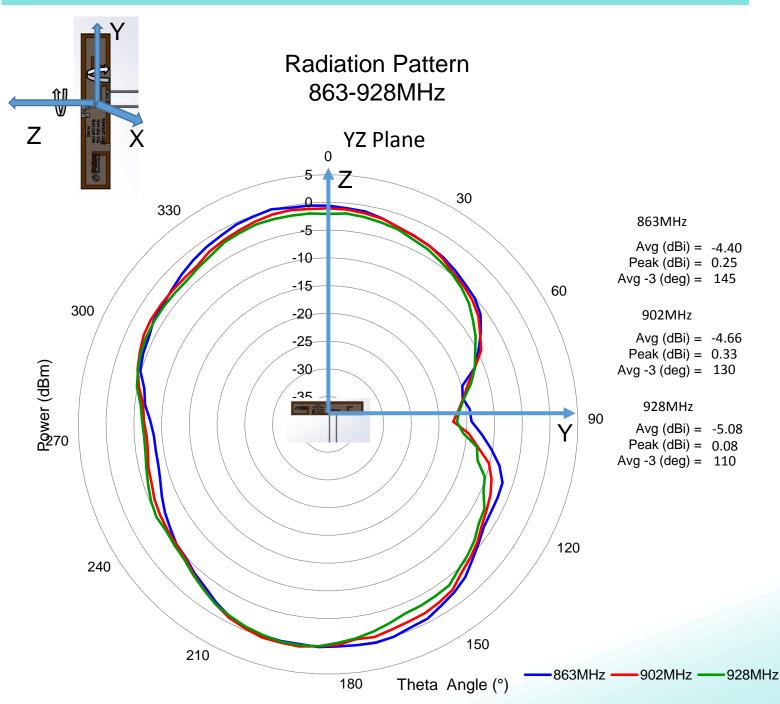


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### CHARTS



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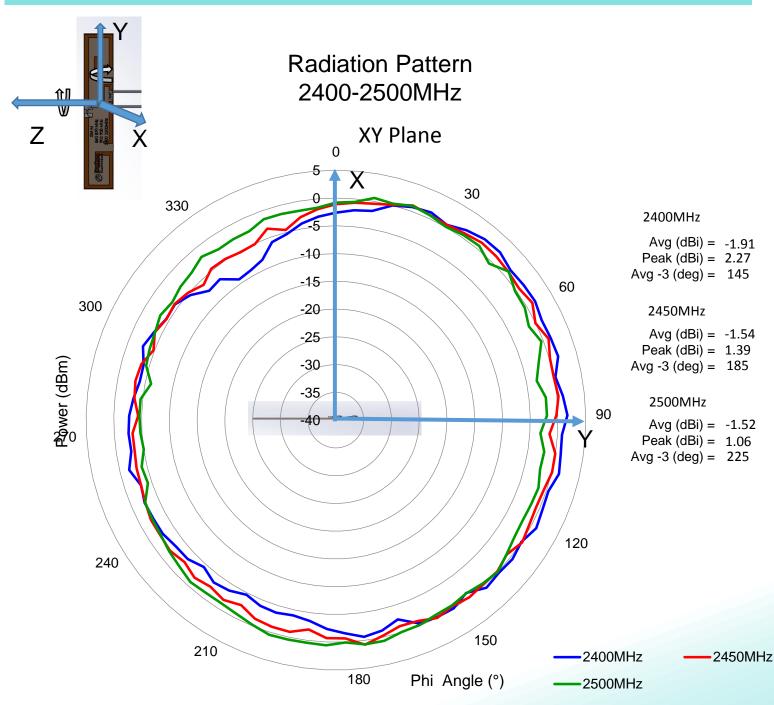


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### CHARTS



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ROHS 11

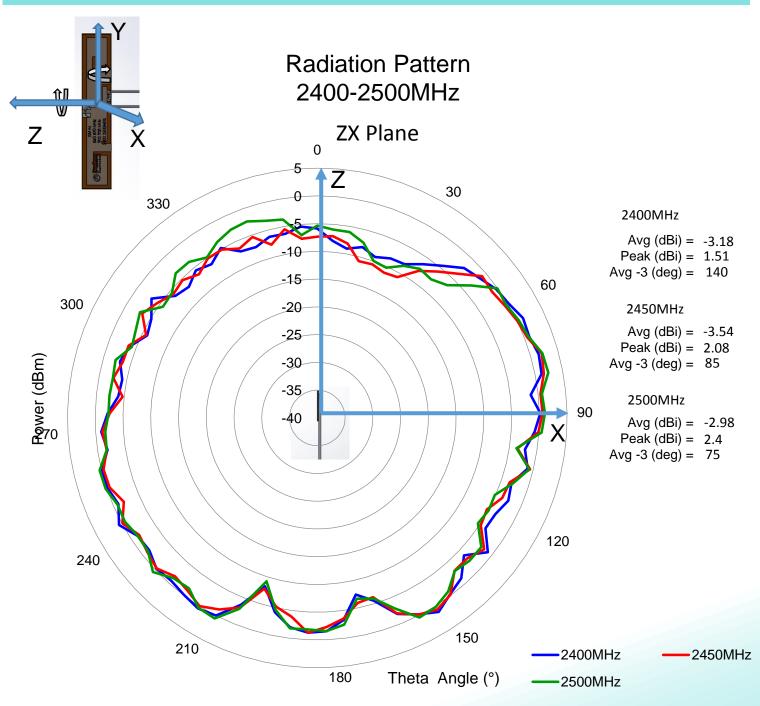


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### CHARTS



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ROHS 12

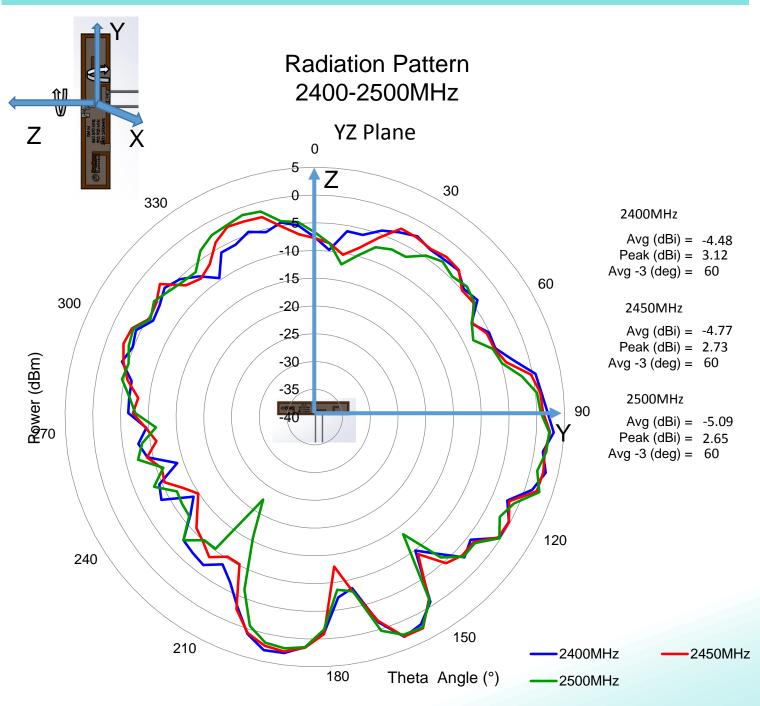


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## **Series: Internal**

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### CHARTS



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ROHS 13



Description: ISM868/915MHz, 2.4GHz Antenna

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PART NUMBER: W3332B0150

## PACKAGING

# 10PCS/PE bag 1000PCS/box





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 930 

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 A08-HABUF-P5I
 AAF95035
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 1513563-1
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 EXE902SM
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 TRAB24003NP
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