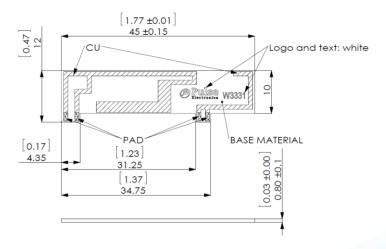


Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3331





All dimensions are in mm / inches

Issue: 1612

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Pulse Worldwide Headquarters 12220 World Trade Drive San Diego, CA 92128 USA Tel:1-858-674-8100

Pulse/Larsen Antennas 3611 NE 112th Ave Vancouver, WA 98682 USA

Europe Headquarters Pulse GmbH & Do, KG Zeppelinstrasse 15 Herrenberg, Germany Tel: 1-360-944-7551 Downloaded From Oneyac.com

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

Features:

- Small clearance needed (about 4mm)
- Test PCB size 118.5*102mm
- High efficiency
- Small compact form factor
- Low profile
- Multi-band (ISM and 2.4 GHz)
- **Board Mountable**
- 2 connection points
- Lead free materials
- **RoHS Compliant Product**

Applications:

- Data transmission for IoT applications
- High speed data terminals
- Routers using ISM frequencies
- ISM and WiFi dual applications
- Hot Spots
- Radio modules
- WiFi / BLE / Zigbee





Description: ISM868/915MHz, 2.4GHz Ant

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ELECTRICAL SPECIFICATIONS

Frequency port1	863-928MHz
Frequency port2	2400-2500MHz
Nominal Impedance	50Ω
Return Loss	-6dB max@ISM868/915MHz
	-12dB max@ISM2.4GHz
Isolation between port1& port2	-15dB
Average efficiency	65% @ISM868/915MHz
	75%@ISM2.4GHz
Gain	2 +/- 1 dBi@ISM868/915MHz
	3.5 +/- 1 dBi@ISM2.4GHz
Radiation Pattern	Omni
Polarization:	linear
Power withstanding	3W

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Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3331

MECHANICAL SPECIFICATIONS		
PCB material	FR4	
Color	Black	
Weight	0.75g	
Overall Length	1.77 INCHES	
Overall width	0.47 INCHES	

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3

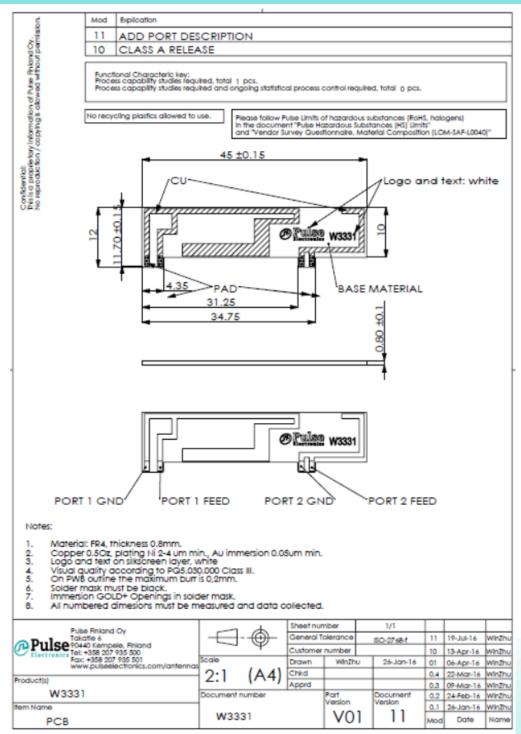


Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

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MECHANICAL DRAWING



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4

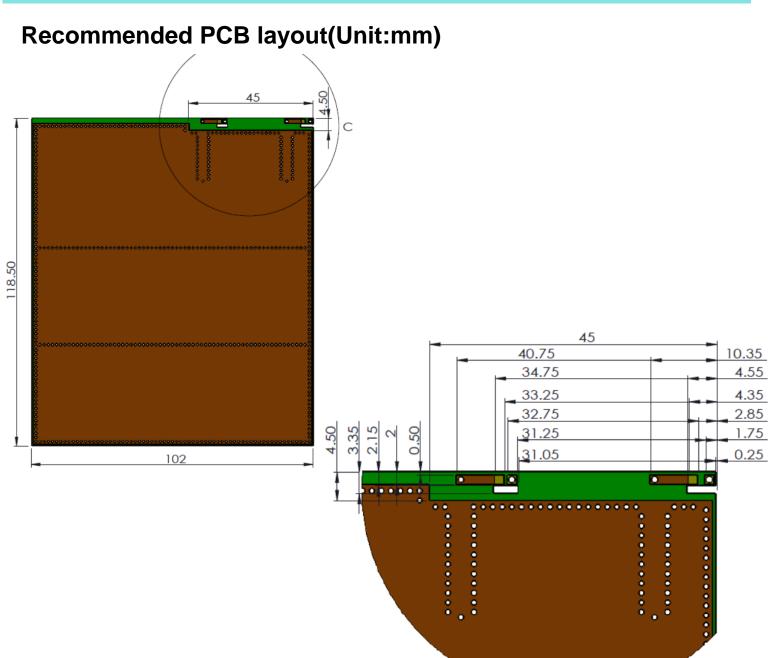


Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3331

OTHER SPECIFICATIONS



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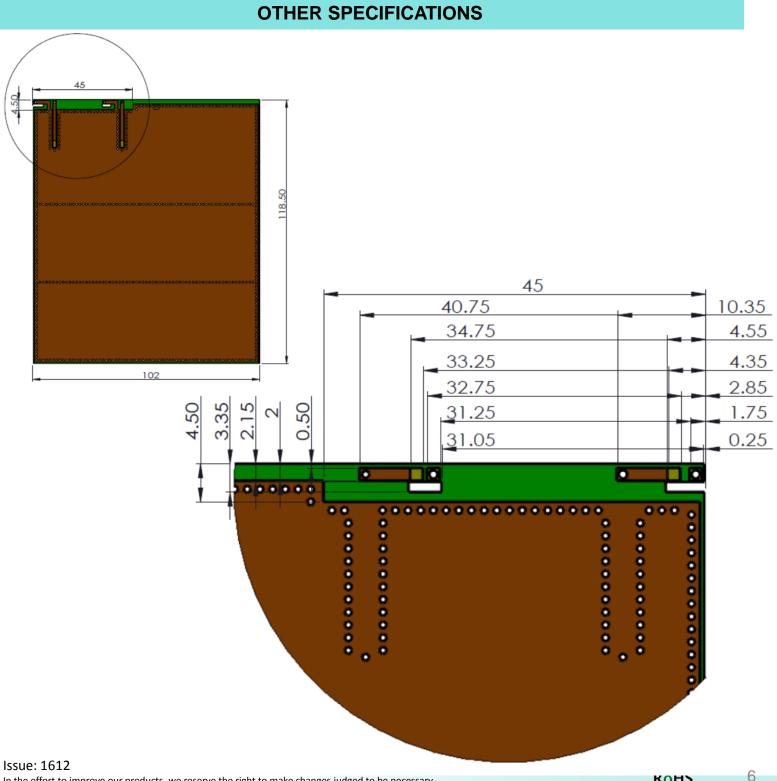
5



Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3331



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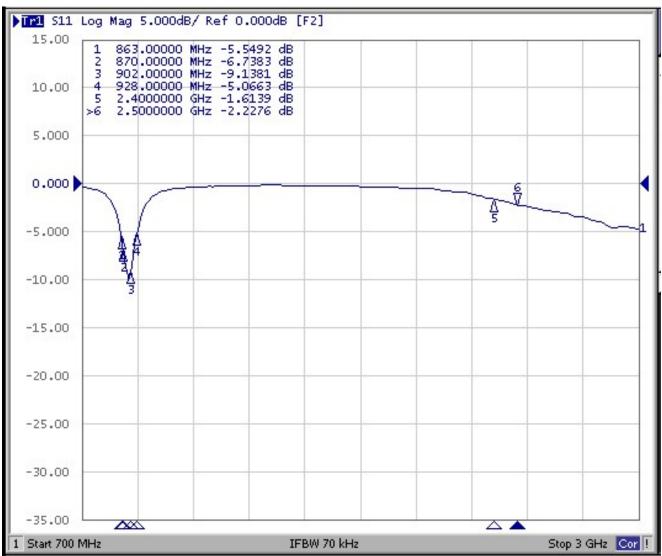


Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3331

CHARTS



ISM868/915MHz band Return Loss

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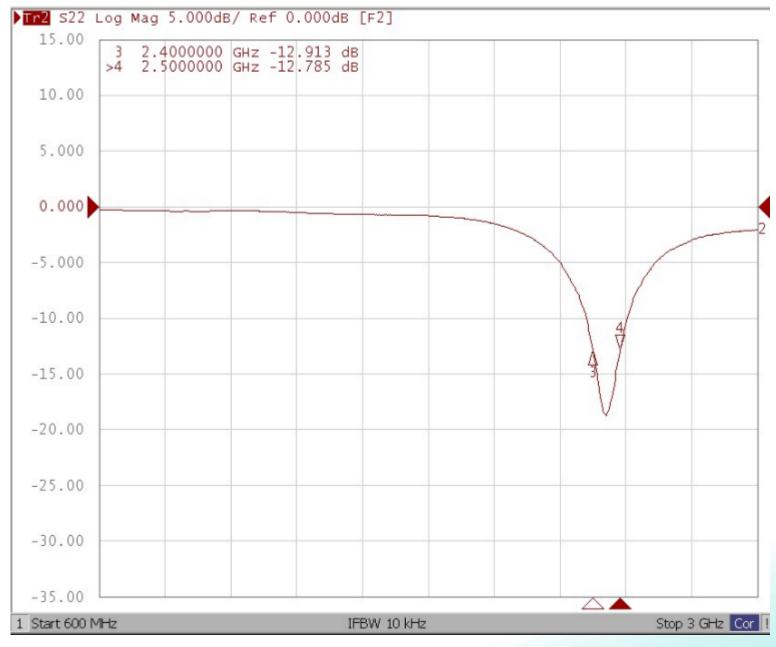
Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

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CHARTS





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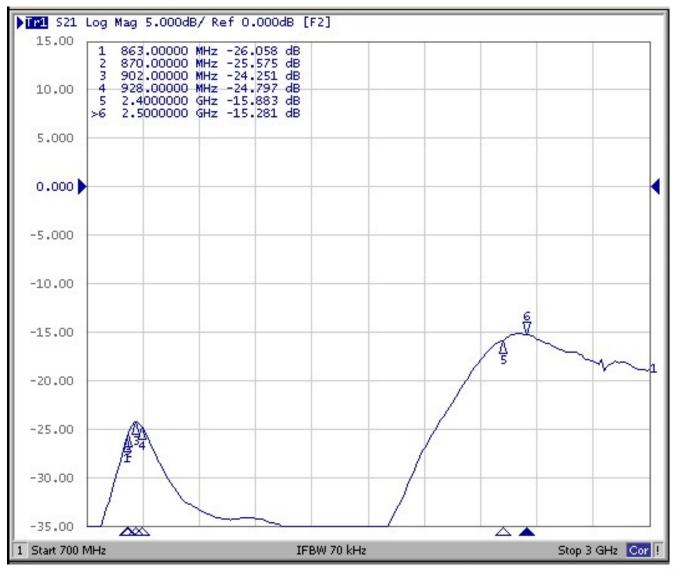
Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

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CHARTS

Isolation



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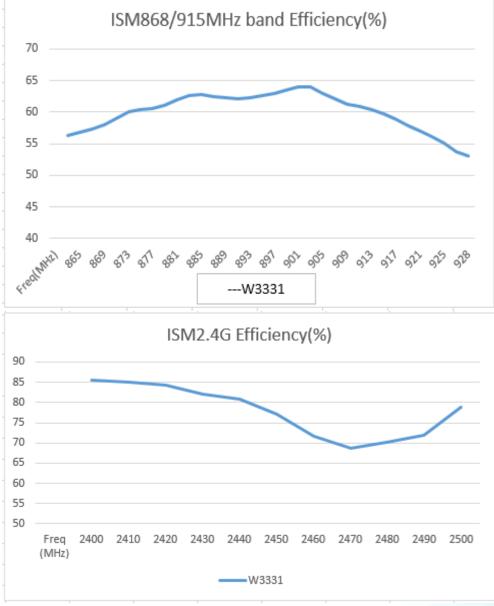
Description: ISM868/915MHz, 2.4GHz Ant

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CHARTS





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ROHS 10



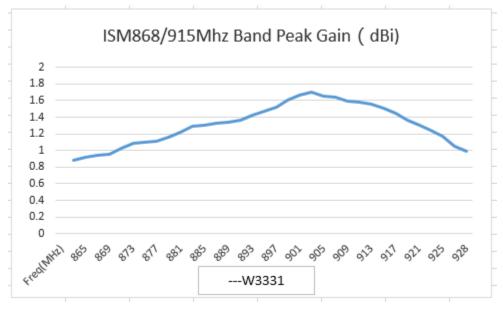
Description: ISM868/915MHz, 2.4GHz Ant

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CHARTS

Peak Gain (dBi)





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Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3331

CHARTS Typical free space radiation pattern ISM868/915MHz X-Y plane XY Plane 0 5 30 330 868MHz Avg (dBi) = -1.41Peak (dBi) = 1.23 -10 Avg - 3 (deg) = 25060 -15 300 891MHz -20 Avg (dBi) = -1.32 Peak (dBi) = 1.87 Rower (dBm) -25 Avg - 3 (deg) = 250-30 915MHz 90 -35 Avg (dBi) = -1.81 Peak (dBi) = 1.63 Avg - 3 (deg) = 230120 240 150 210

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ROHS 12

-915MHz

-891MHz ----

868MHz -

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Phi Angle (°)

180



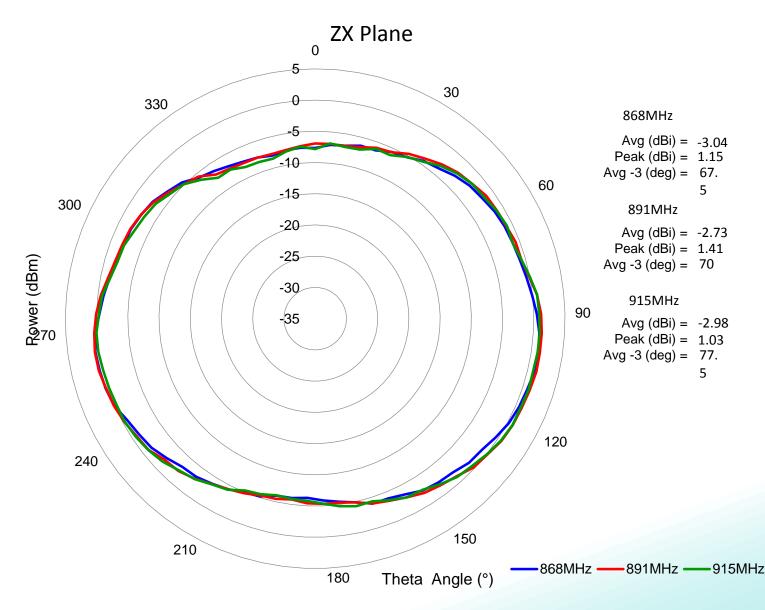
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CHARTS

Typical free space radiation pattern ISM868/915MHz Z-X plane



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RoHS



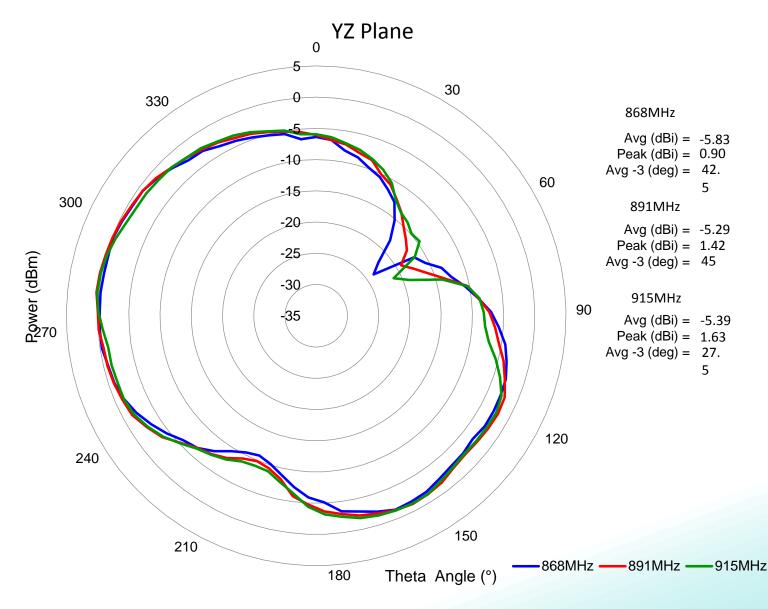
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CHARTS

Typical free space radiation pattern ISM868/915MHz Z-Y plane



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RoHS

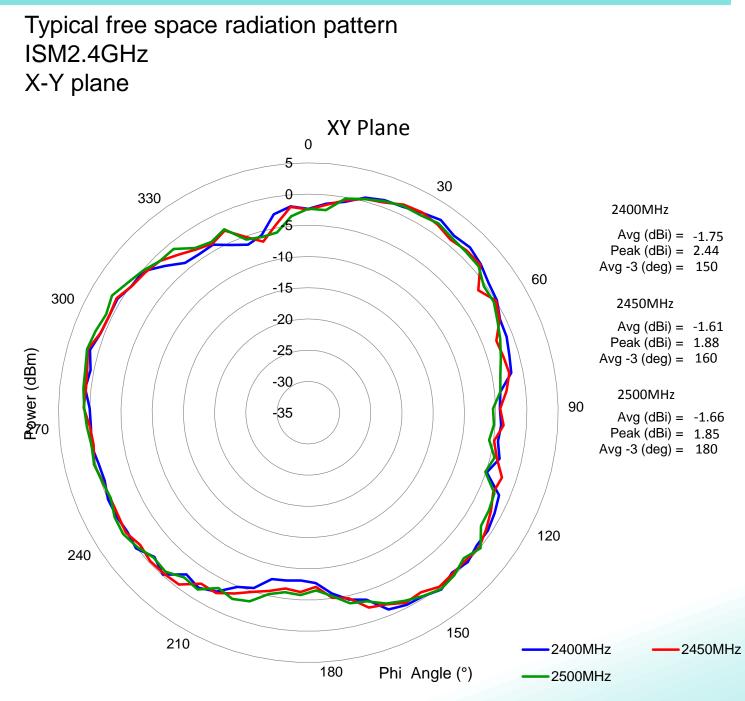


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CHARTS



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RoHS

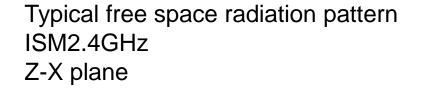


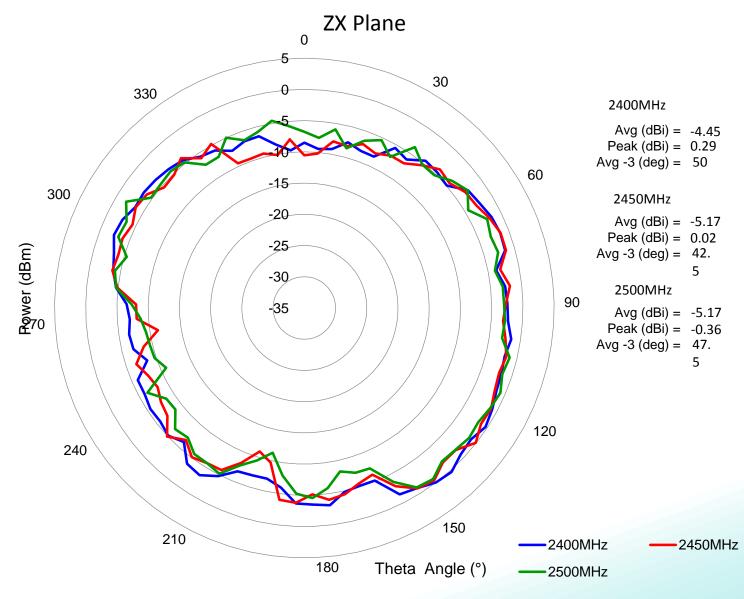
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CHARTS





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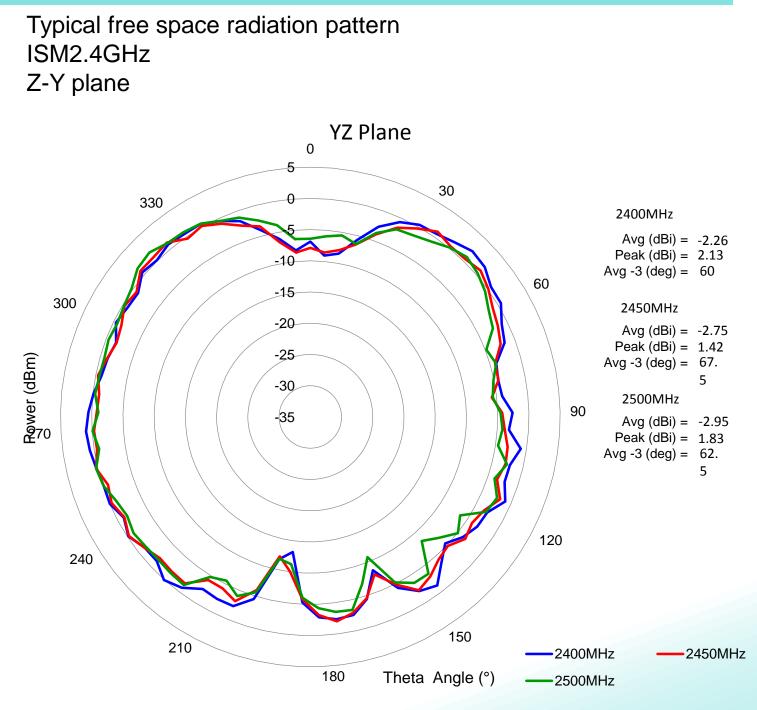


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CHARTS



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Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3331

PACKAGING

10PCS/PE bag 1000PCS/box

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