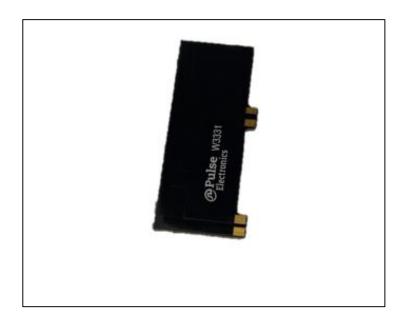


Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3333

Series: PCB Embedded



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

All dimensions are in mm / inches

Issue: 1615

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 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 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,4th Phase Suzhou New District Jiangsu Province, Suzhou 215009 PR China Tel: 86 512 6807 9998



Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3333

ELECTRICAL SPECIFICATIONS

Frequency port1 863-928MHz

Frequency port2 2400-2500MHz

Nominal Impedance 50Ω

Return Loss -8dB max@ISM868/915MHz

-12dB max@ISM2.4GHz

Isolation port1&port2 -15dB

Average efficiency 75%@ISM868/915MHz

75%@ISM2.4GHz

Gain 2.5 +/- 1dBi@ISM868/915MHz

4+/- 1dBi@ISM2.4GHz

Radiation Pattern Omni

Polarization: linear

Power withstanding 3W



Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3333

MECHANICAL SPECIFICATIONS	
Material	FR4
Color	Black
Weight	1g
Overall Length	1.57 INCHES
Overall width	0.67 INCHES

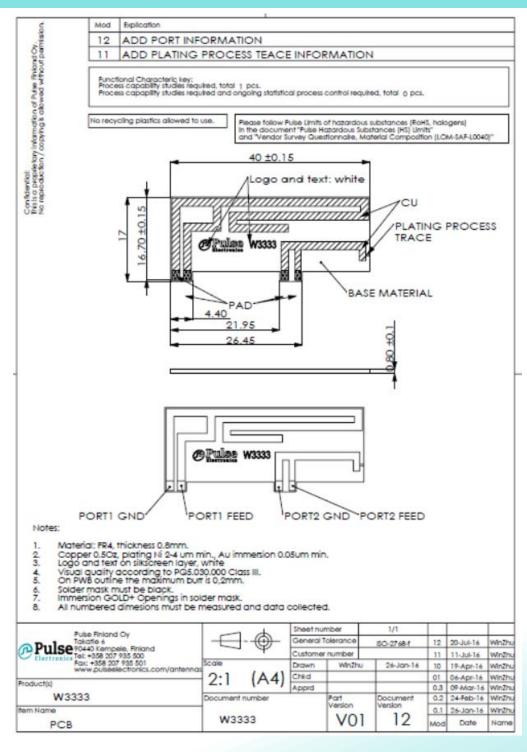


Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3333

MECHANICAL DRAWING



Issue: 1615

RóHS



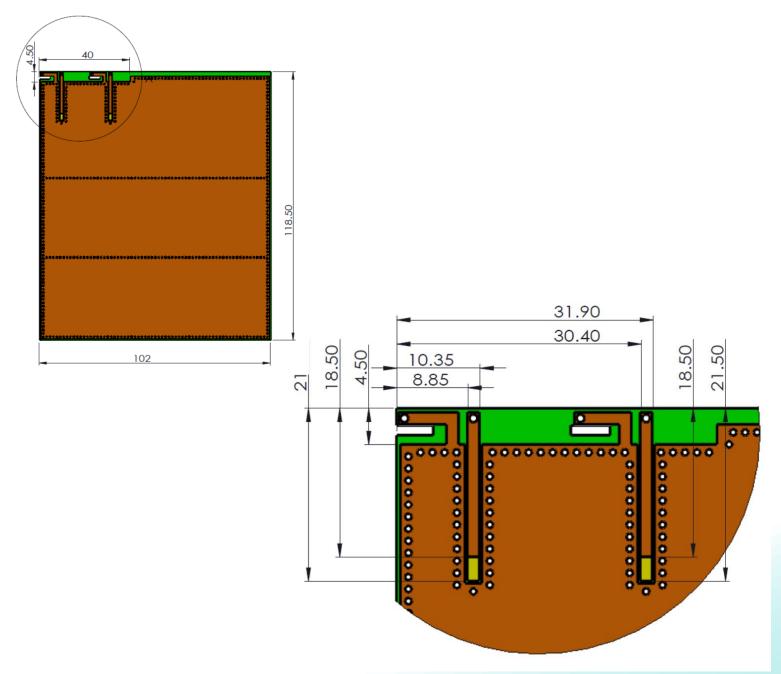
Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3333

OTHER SPECIFICATIONS

Recommended PCB layout(Unit:mm)





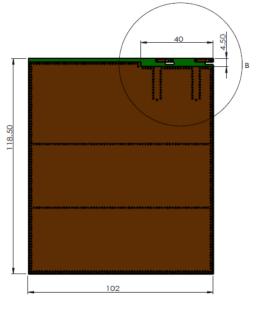


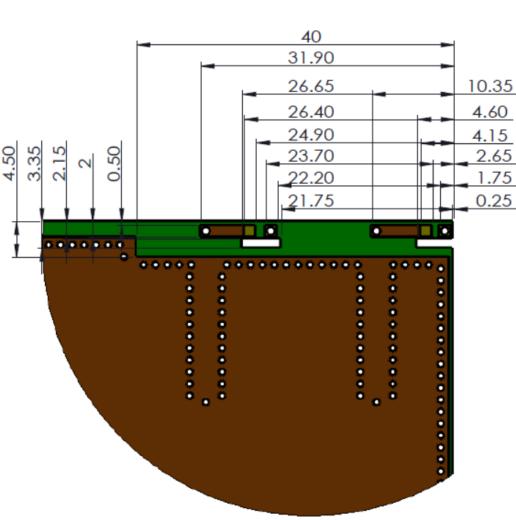
Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3333

OTHER SPECIFICATIONS





Issue: 1615

ROHS



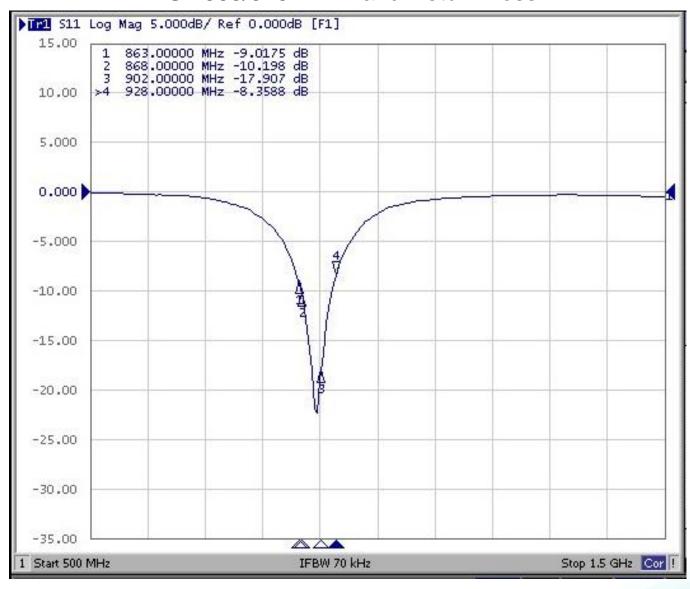
Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3333

CHARTS

ISM868/915MHz Band Return Loss









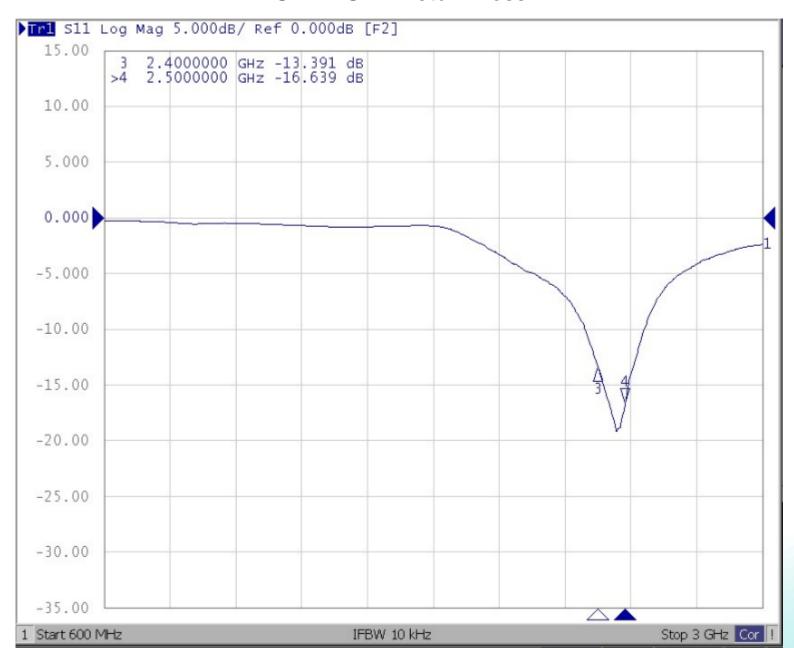
Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3333

CHARTS

ISM2.4GHz Return Loss







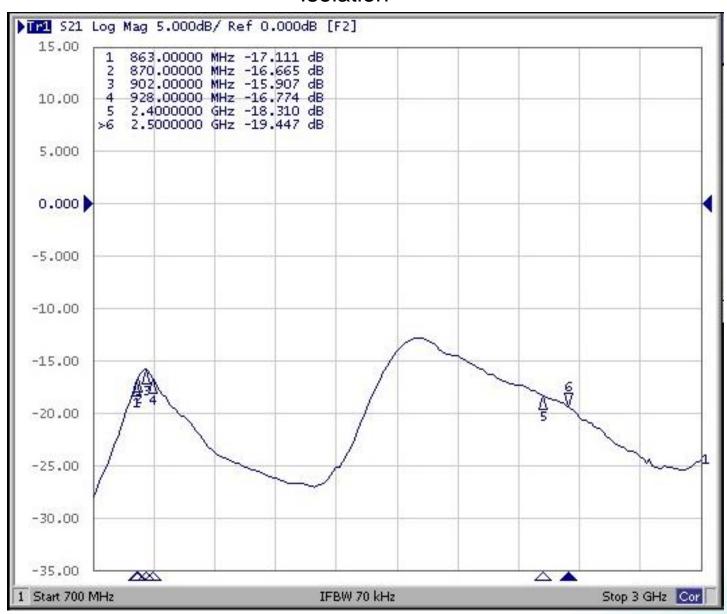
Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3333

CHARTS

Isolation







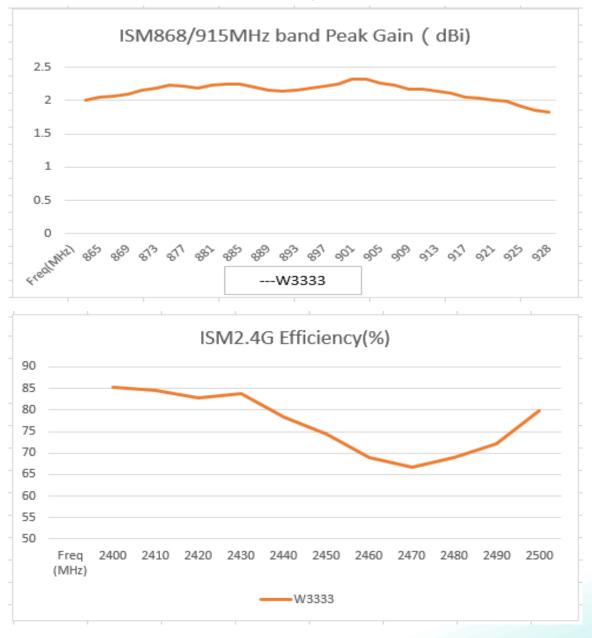
Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3333

CHARTS

Efficiency(%)





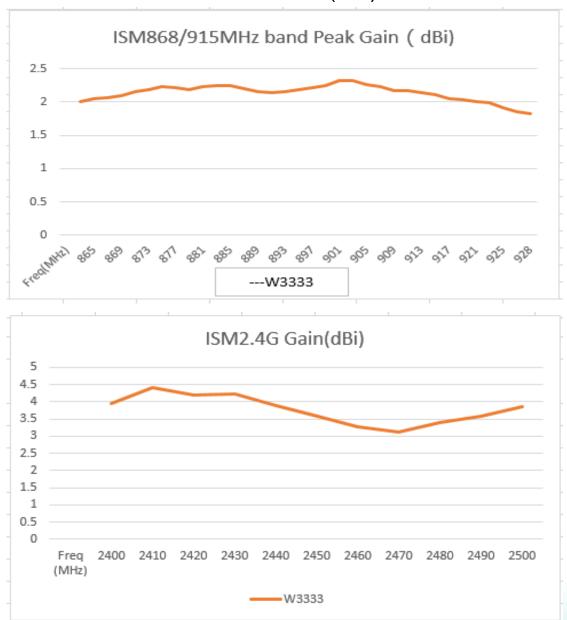
Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3333

CHARTS

Peak Gain(dBi)





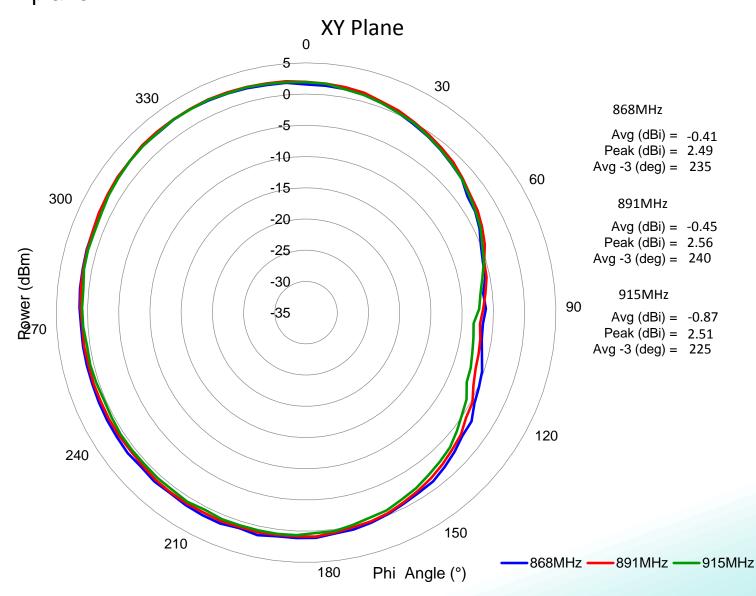


Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded
PART NUMBER: W3333

CHARTS

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







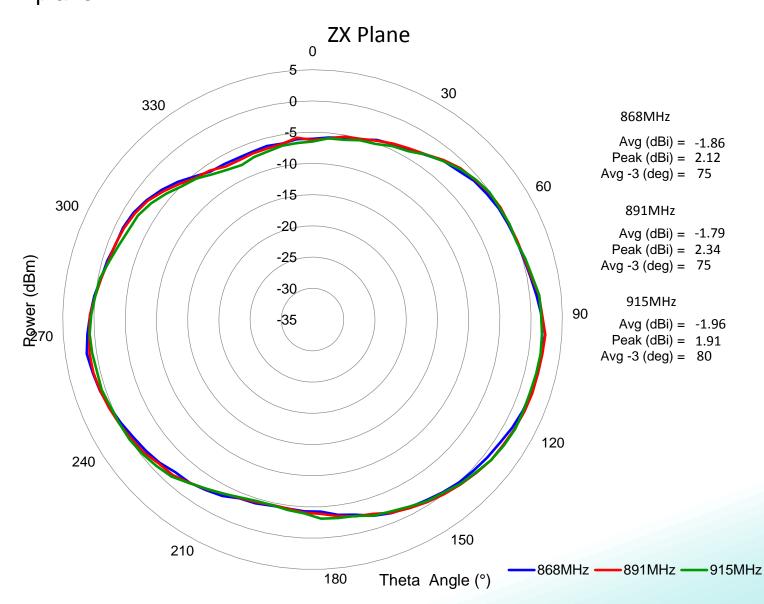


Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded
PART NUMBER: W3333

CHARTS

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









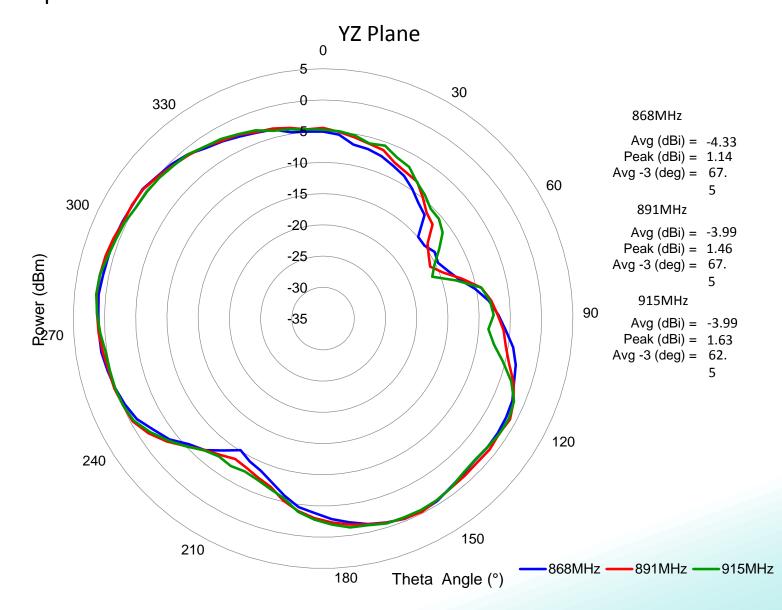
Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

PART NUMBER: W3333

CHARTS

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





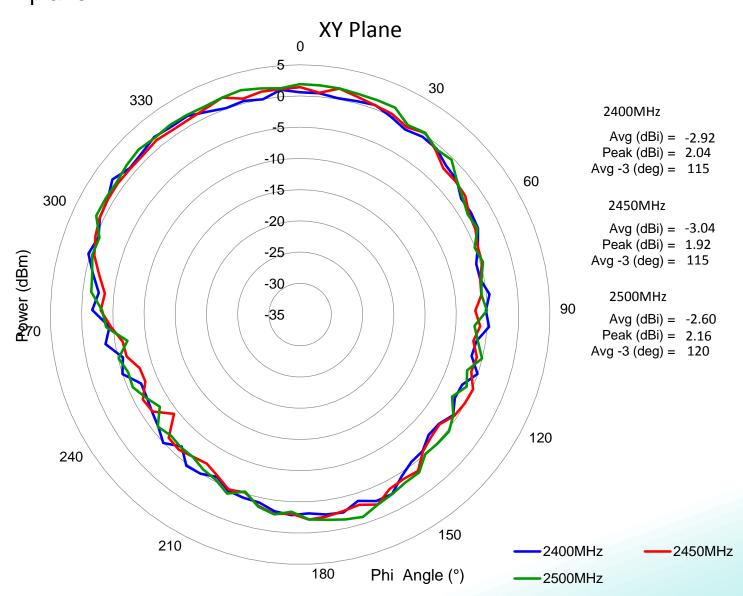
Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3333

Series: PCB Embedded

CHARTS

Typical free space radiation pattern ISM2.4GHz X-Y plane









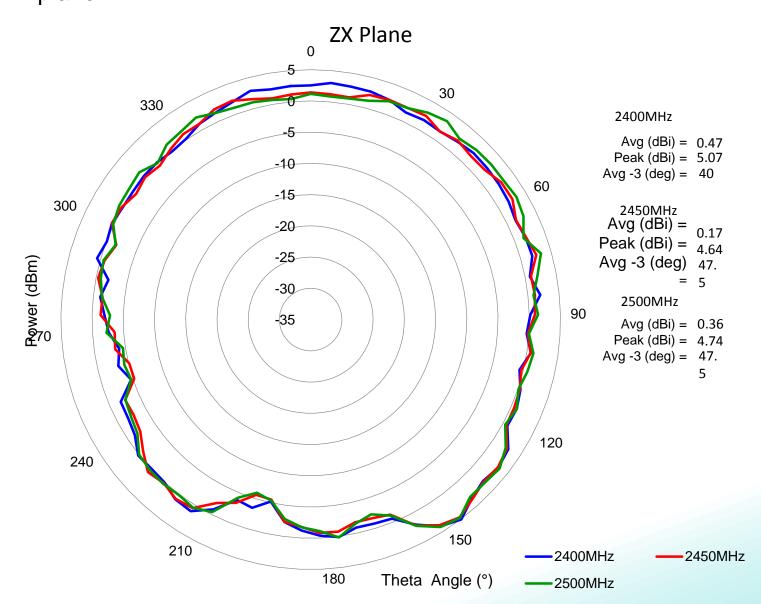
Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3333

Series: PCB Embedded

CHARTS

Typical free space radiation pattern ISM2.4GHz Z-X plane







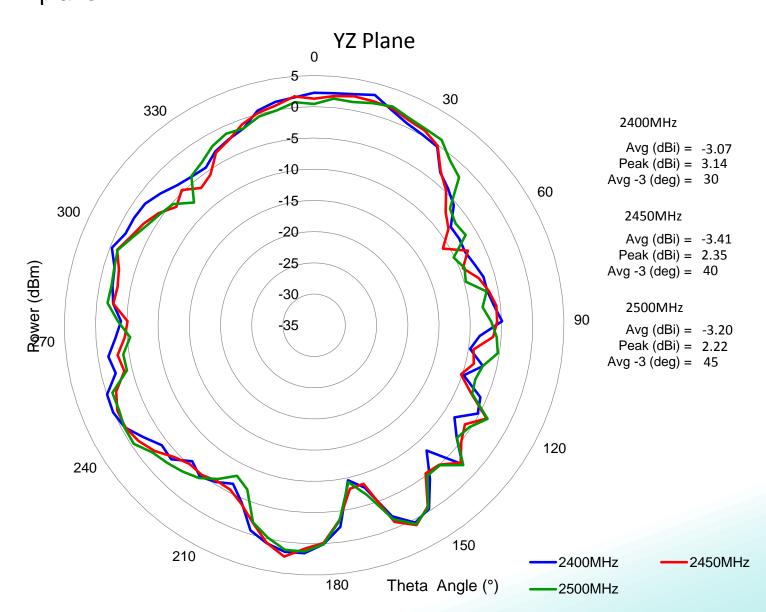
Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3333

Series: PCB Embedded

CHARTS

Typical free space radiation pattern ISM2.4GHz Z-Y plane



Issue: 1615

ROHS



Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3333

Series: PCB Embedded

PACKAGING

10PCS/PE bag 1000PCS/box