

Description: ISM868/915, ISM2.4G

Series: Ceramic antenna

PART NUMBER: W3320



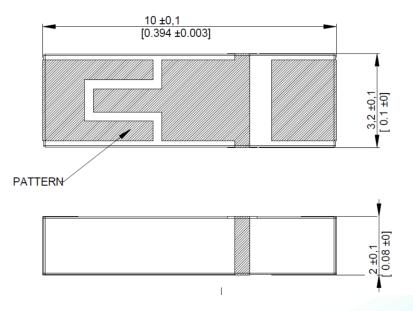
Features:

3 in1 –combo antenna

Port 1: 868/915MHz

Port 2: 2.4GHz

- Compact size 3.2x10x2mm
- SMT mounting on PCB
- Tape & Reel packing
- High isolation between ports >20dB



Applications:

- ISM band radios
- 868MHz, 915MHz, 2.4GHz
- IoT, M2M, set top boxes, devices requiring small embedded multiband ISM antenna

All dimensions are in mm / inches

Issue: 1612

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 18110 SE 34th St Bldg 2 Suite 250 Vancouver, WA 98683 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: ISM868/915, ISM2.4G

Series: Ceramic antenna

PART NUMBER: W3320

ELECTRICAL SPECIFICATIONS

Frequency ISM868/915MHz, ISM2.4GHz

Nominal Impedance 50Ω

Return Loss <-7dB @868/915MHz

<-5dB@2.4

Gain 1dBi +/- 1 dB@868/915MHz

3dBi +/- 1 dB@2.4GHz

Radiation Pattern Omni

Polarization: Vertical

Power withstanding 2W



Description: ISM868/915, ISM2.4G

Series: Ceramic antenna

PART NUMBER: W3320

Weight 0.3 g

Overall Length 10[0.39] MM[INCHES]

Over all width 3.2[0.12] MM[INCHES]

Over all thickness 2[0.08] MM[INCHES]

ENVIRONMENTAL SPECIFICATIONS

Operating temperature

-40/+85° C



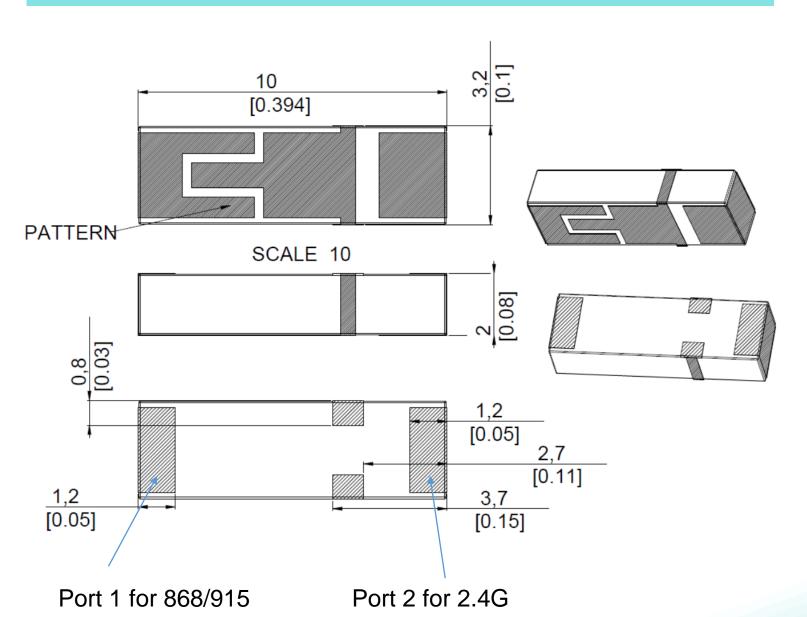


Description: ISM868/915, ISM2.4G

Series: Ceramic antenna

PART NUMBER: W3320

MECHANICAL DRAWING





Description: ISM868/915, ISM2.4G

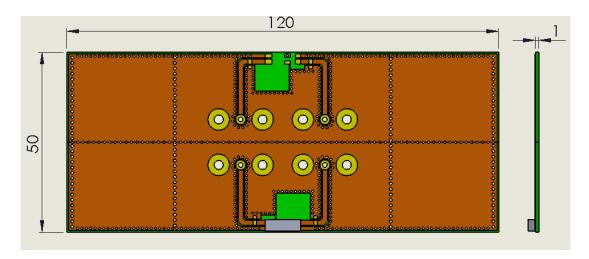
Series: Ceramic antenna

PART NUMBER: W3320

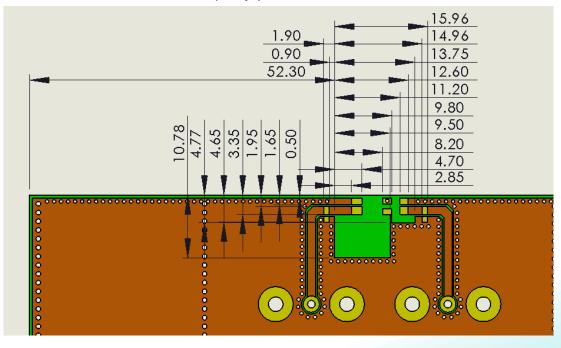
OTHER SPECIFICATIONS

PCB LAYOUT

1, PCB material, FR4, size, 120X50X1mm



2, Clearance area (Top)









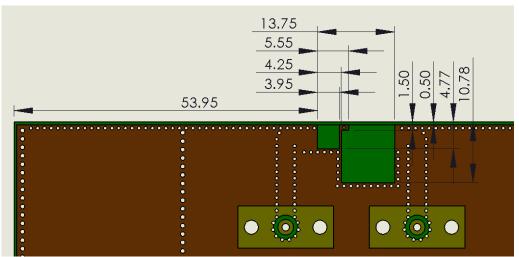
Series: Ceramic antenna

PART NUMBER: W3320

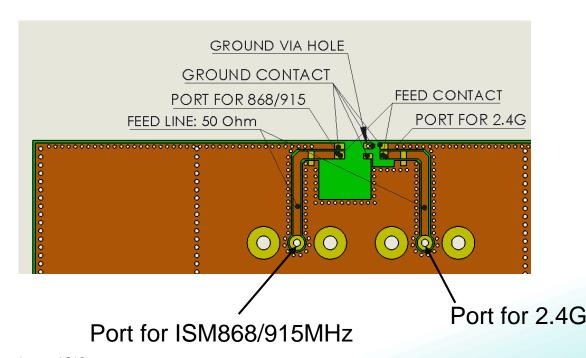
OTHER SPECIFICATIONS

PCB LAYOUT

3, Clearance area (Bottom)



4, PCB Features



Issue: 1612

ROHS



Description: ISM868/915, ISM2.4G

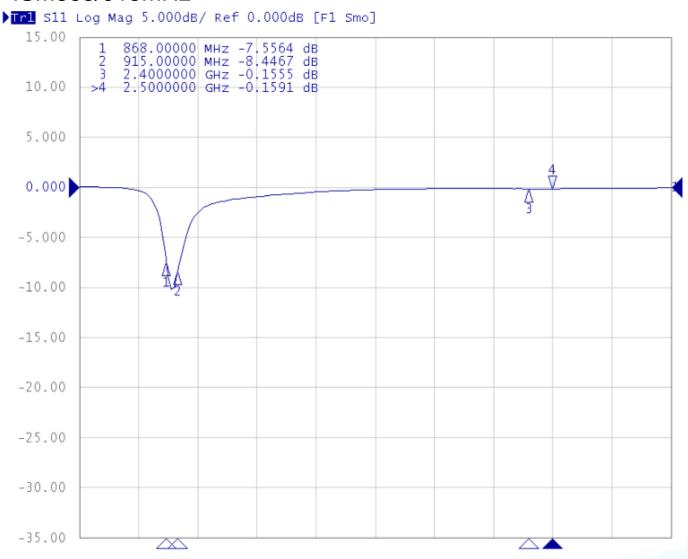
Series: Ceramic antenna

PART NUMBER: W3320

CHARTS

Return Loss

ISM868/915MHz





Description: ISM868/915, ISM2.4G

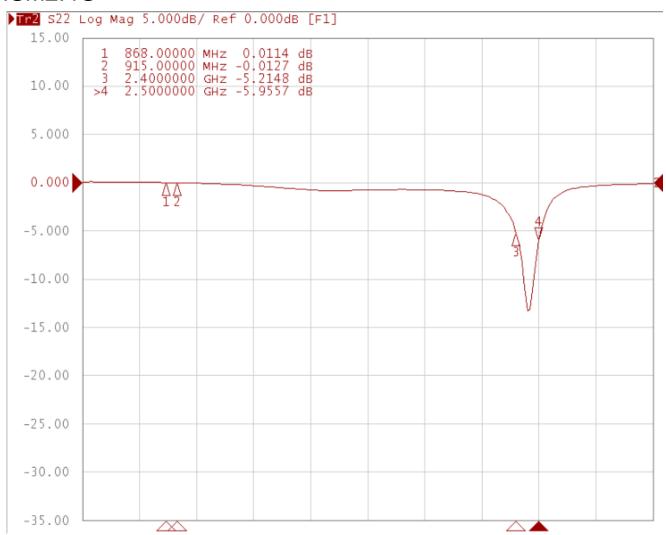
Series: Ceramic antenna

PART NUMBER: W3320

CHARTS

Return Loss

ISM2.4G







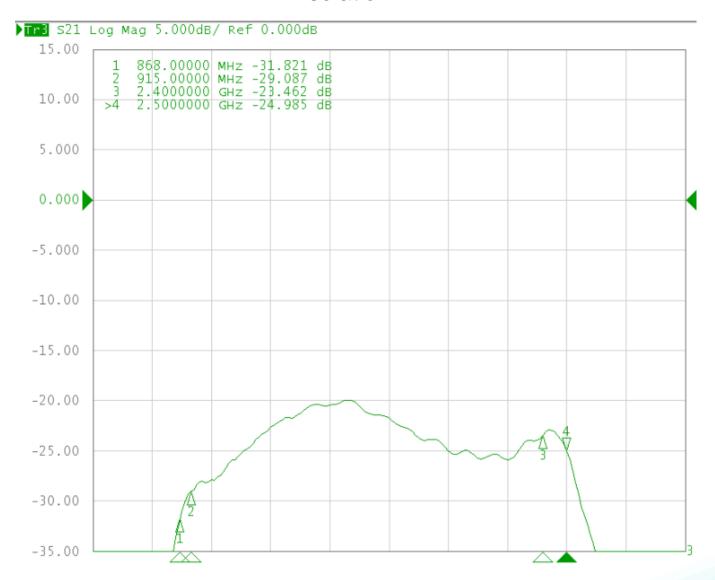
Description: ISM868/915, ISM2.4G

Series: Ceramic antenna

PART NUMBER: W3320

CHARTS

Isolation





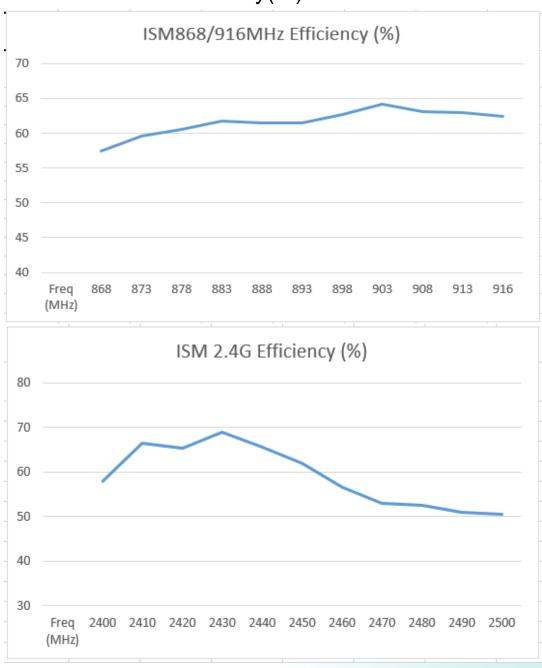


Series: Ceramic antenna

PART NUMBER: W3320

CHARTS

Efficiency(%)



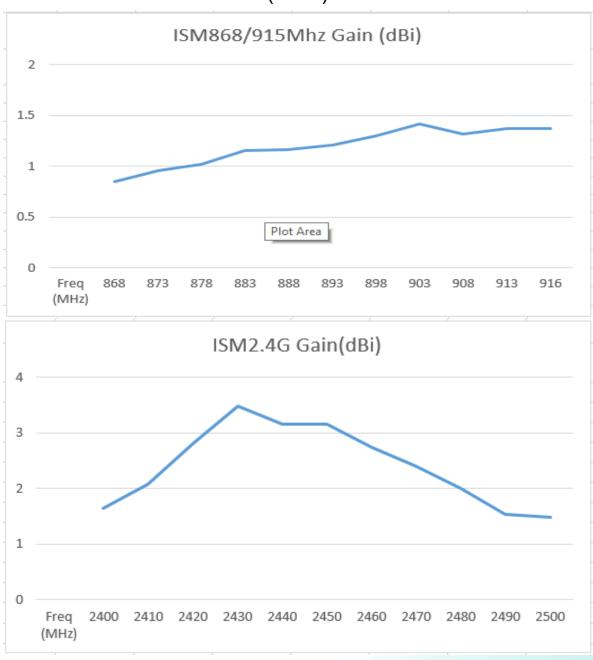


Series: Ceramic antenna

PART NUMBER: W3320

CHARTS

Gain (dBi)







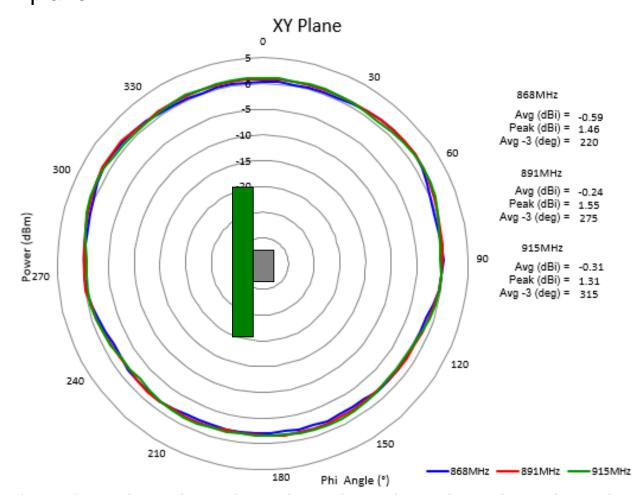
Description: ISM868/915, ISM2.4G

Series: Ceramic antenna

PART NUMBER: W3320

CHARTS

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





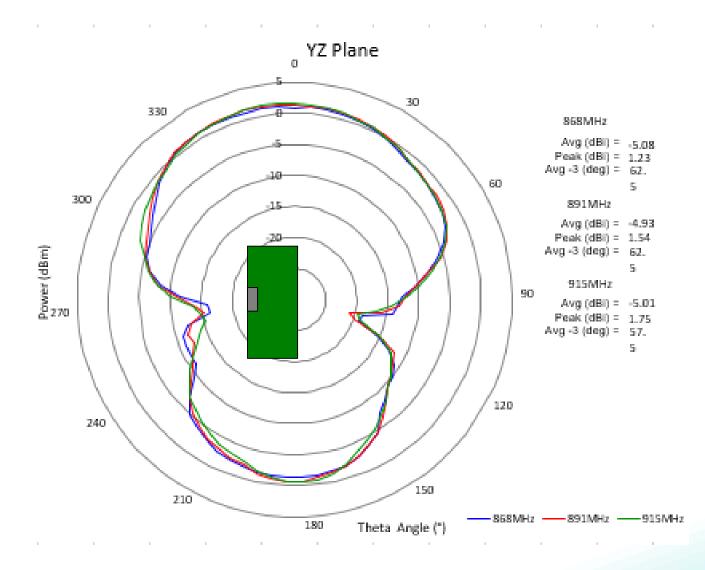
Description: ISM868/915, ISM2.4G

Series: Ceramic antenna

PART NUMBER: W3320

CHARTS

ISM868/915MHz Y-Z plane





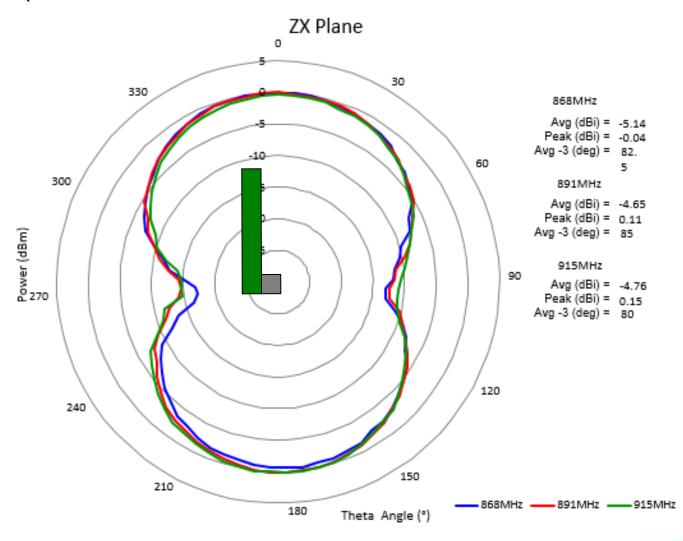
Description: ISM868/915, ISM2.4G

Series: Ceramic antenna

PART NUMBER: W3320

CHARTS

ISM868/915MHz X-Z plane







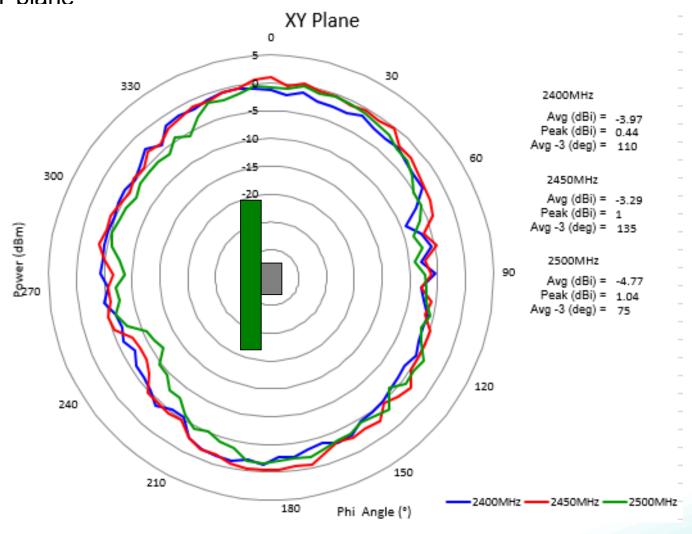
Description: ISM868/915, ISM2.4G

Series: Ceramic antenna

PART NUMBER: W3320

CHARTS

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





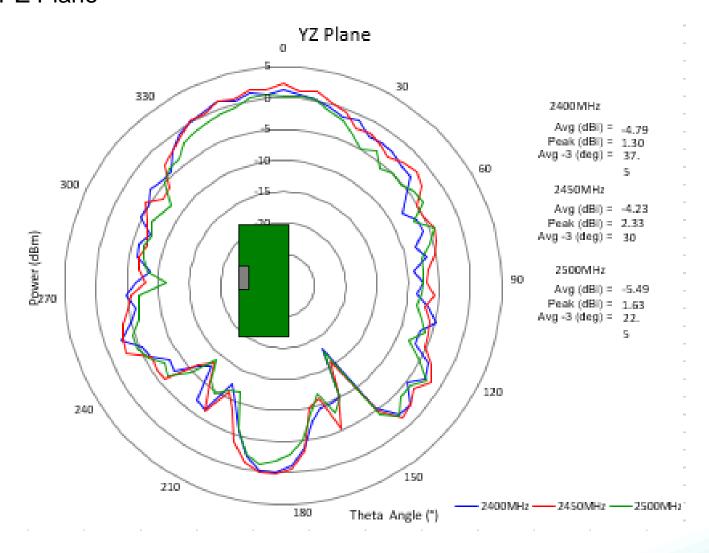
Description: ISM868/915, ISM2.4G

Series: Ceramic antenna

PART NUMBER: W3320

CHARTS

ISM 2.4GHz Y-Z Plane



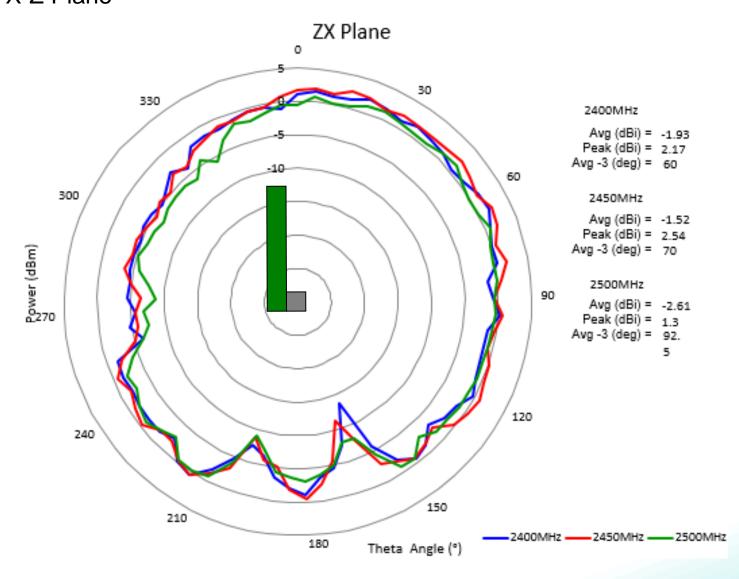


Series: Ceramic antenna

PART NUMBER: W3320

CHARTS

ISM 2.4GHz X-Z Plane





Description: ISM868/915, ISM2.4G

Series: Ceramic antenna

PART NUMBER: W3320

PACKAGING

Taping package 1000PCS/Reel 3000PCS/Small box 6000PCS/Carton box







