

Description: ISM868/915, ISM2.4G

Series: Ceramic antenna

PART NUMBER: W3320



10 ±0,1 [0.394 ±0.003] PATTERN PATTERN 10 ±0,1 10 ±0

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: 1834

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION

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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





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MECHANICAL	SPECIF	FICATIONS
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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



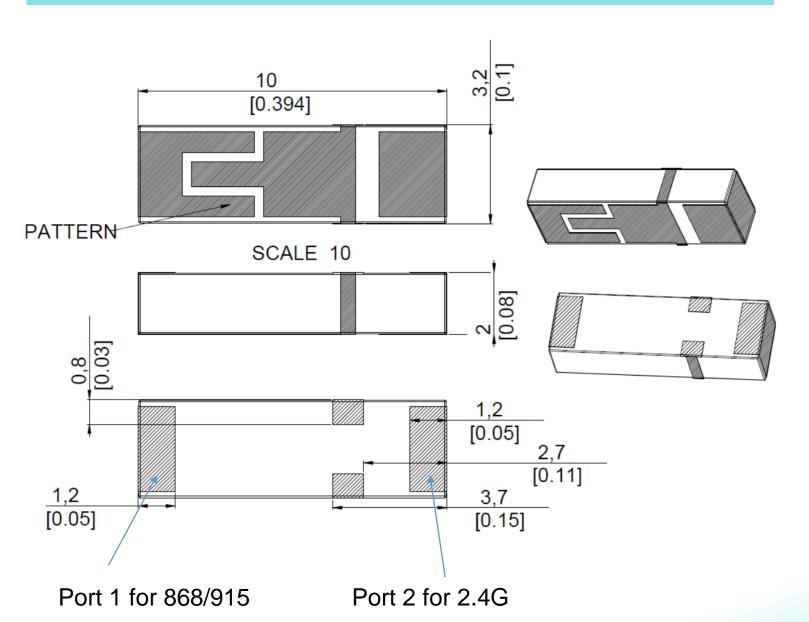


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MECHANICAL DRAWING





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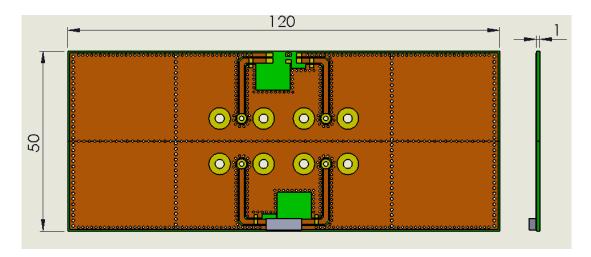
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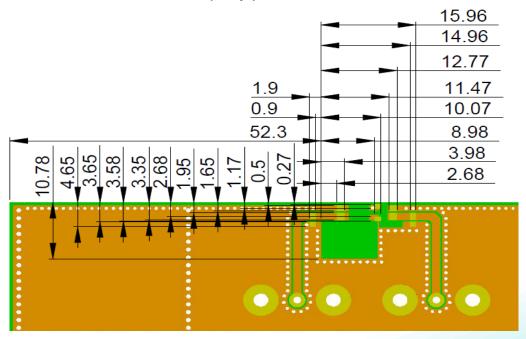
OTHER SPECIFICATIONS

PCB LAYOUT

1, PCB material, FR4, size, 120X50X1mm



2, Clearance area (Top)









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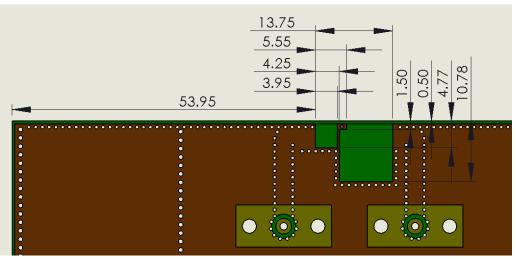
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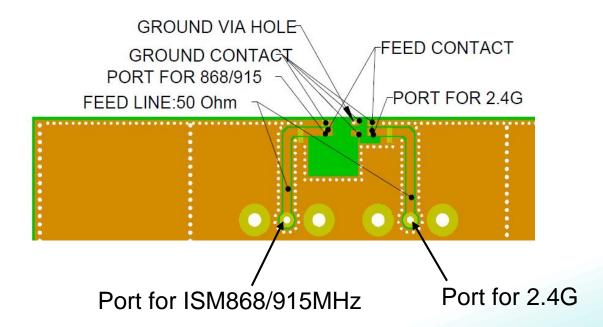
OTHER SPECIFICATIONS

PCB LAYOUT

3, Clearance area (Bottom)



4, PCB Features





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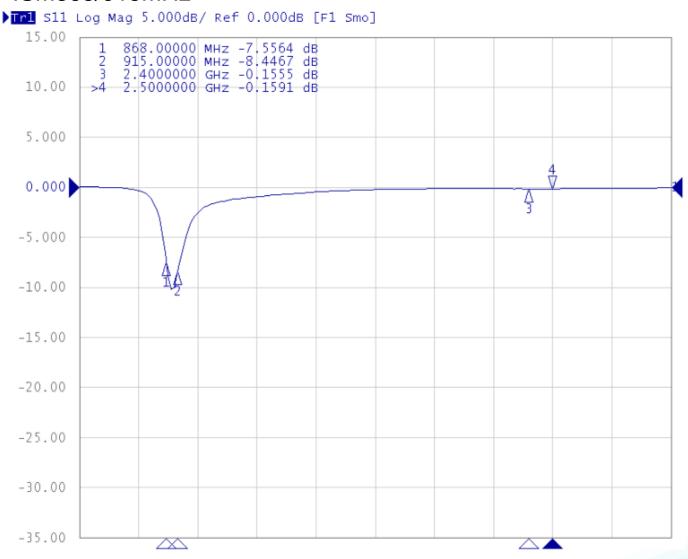
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CHARTS

Return Loss

ISM868/915MHz





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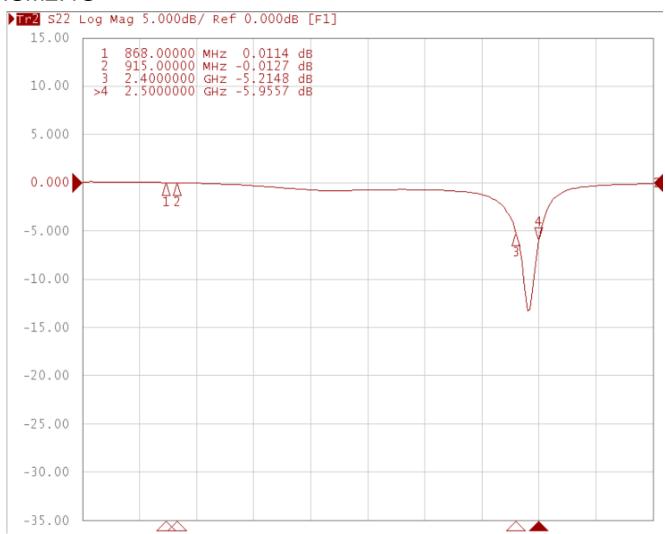
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CHARTS

Return Loss

ISM2.4G







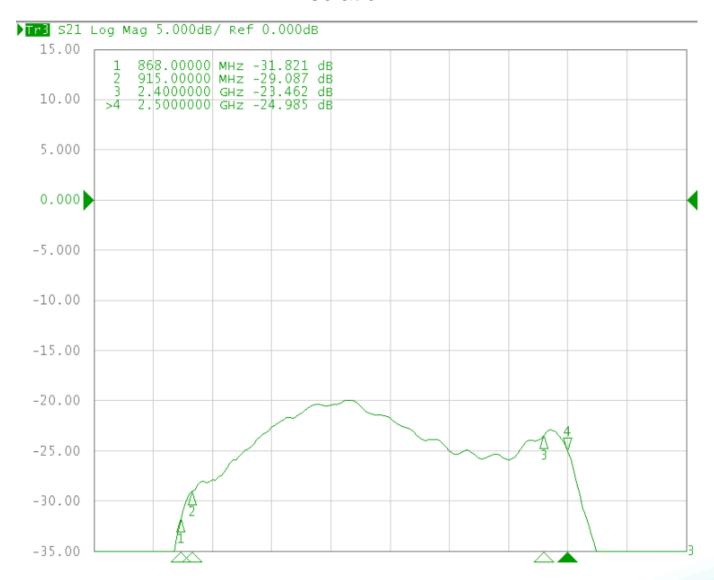
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CHARTS

Isolation







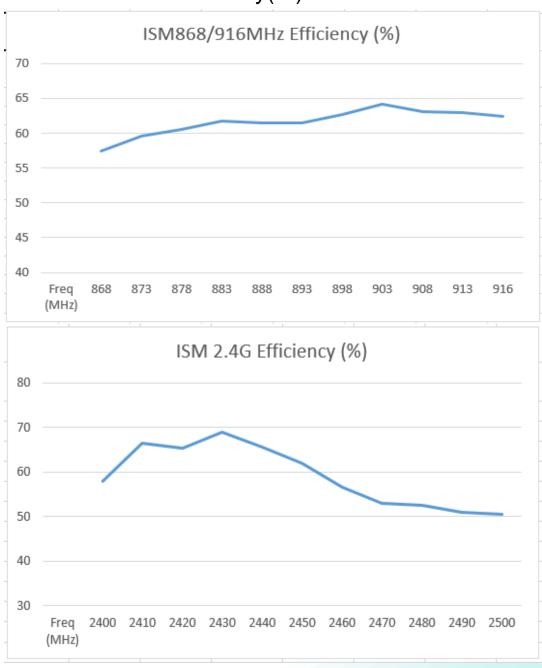


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CHARTS

Efficiency(%)



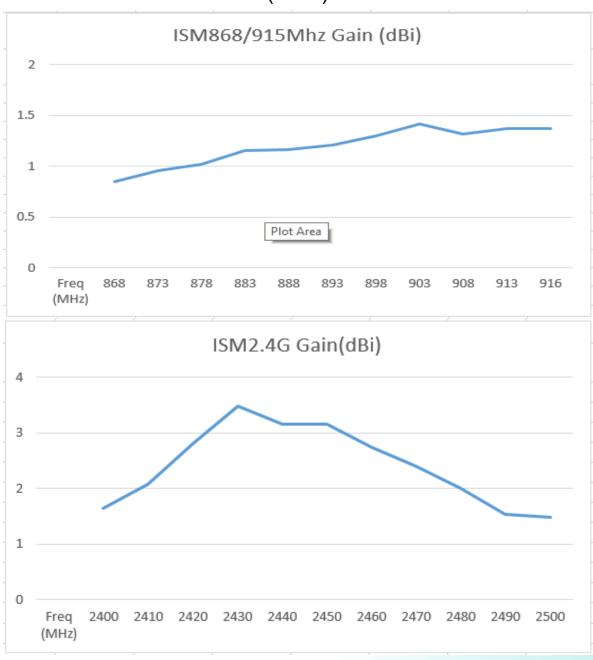


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CHARTS

Gain (dBi)







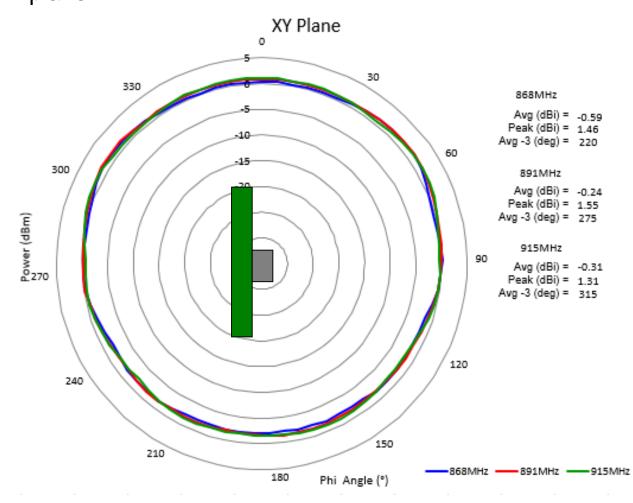
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CHARTS

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





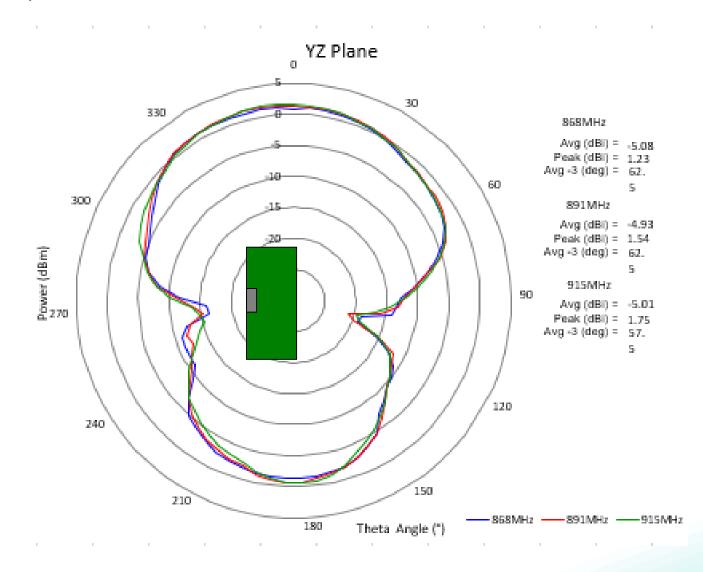
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CHARTS

ISM868/915MHz Y-Z plane





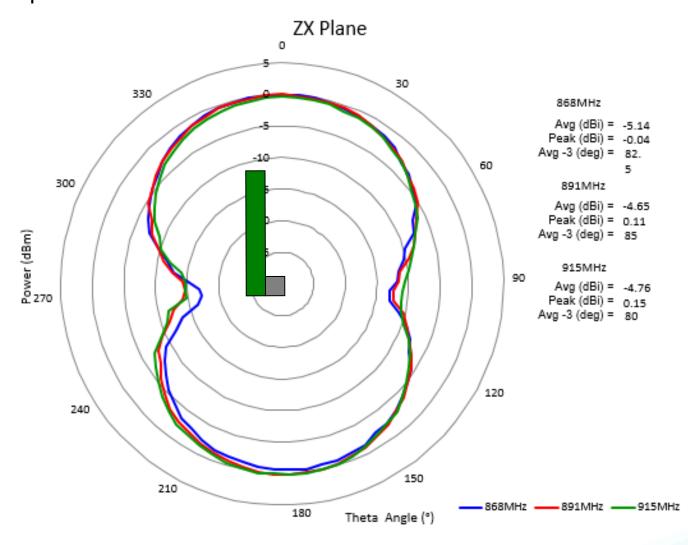


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CHARTS

ISM868/915MHz X-Z plane







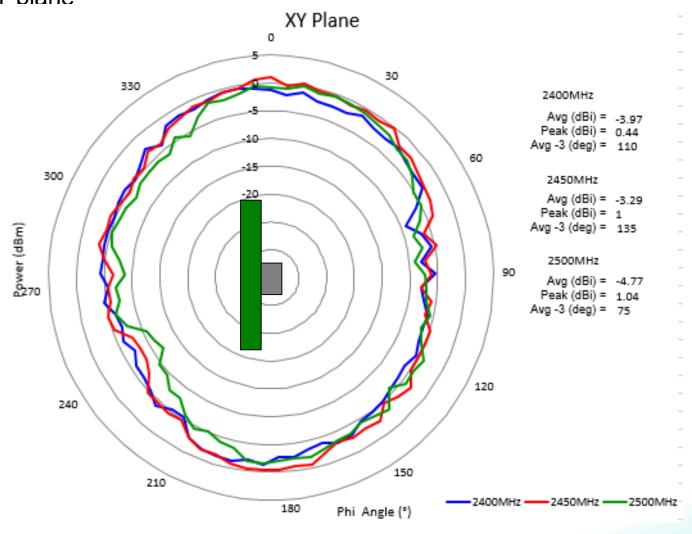
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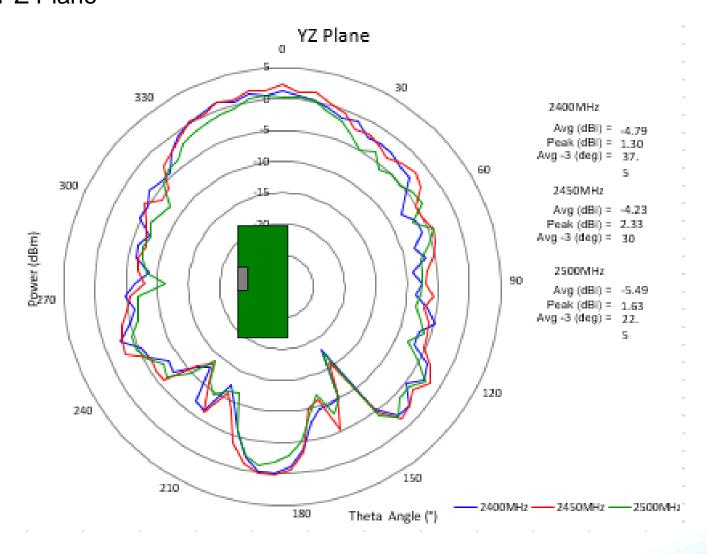
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CHARTS

ISM 2.4GHz Y-Z Plane



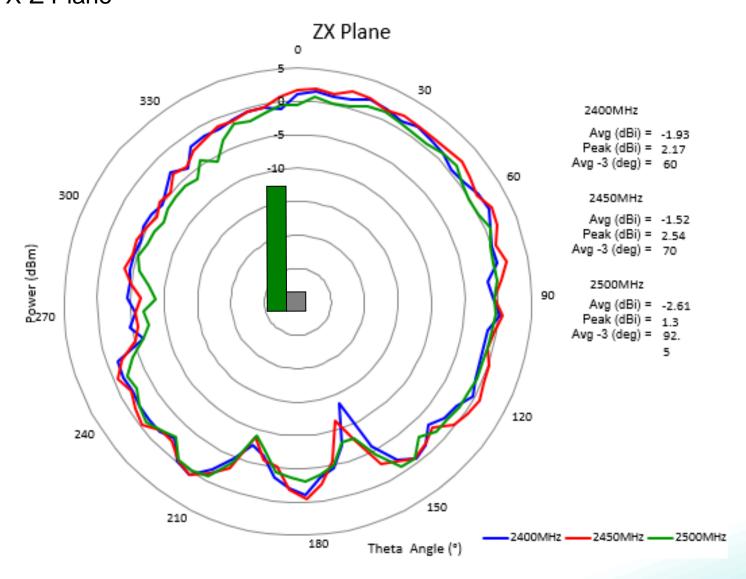


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ISM 2.4GHz X-Z Plane







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PACKAGING

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









