

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  $50\Omega$ 

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 | <b>ICATIONS</b> |
|--------------|--------|-----------------|
|--------------|--------|-----------------|

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



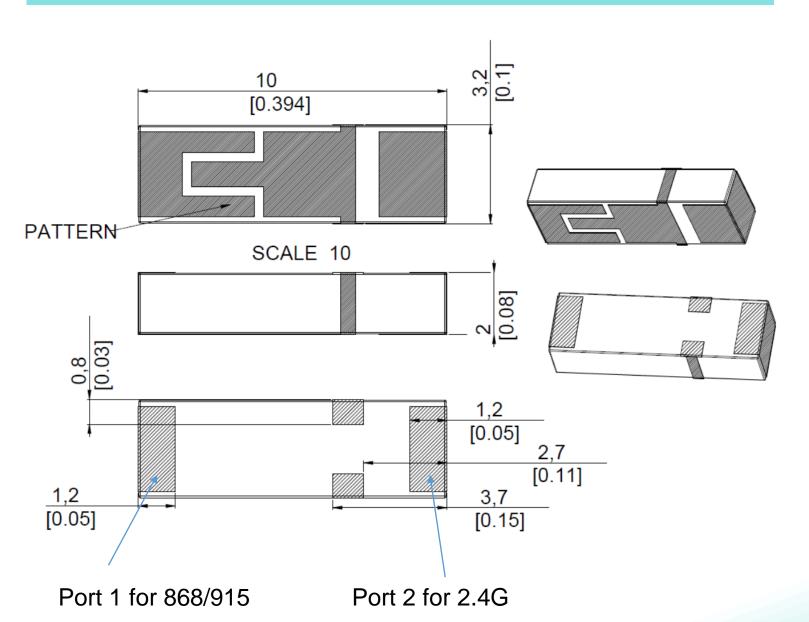


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#### **MECHANICAL DRAWING**





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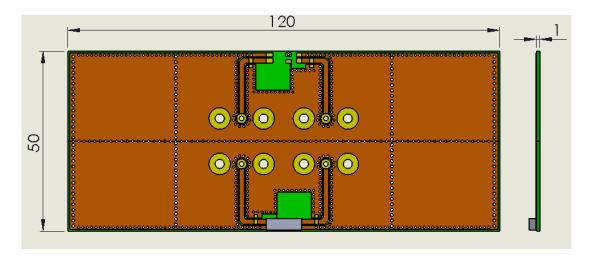
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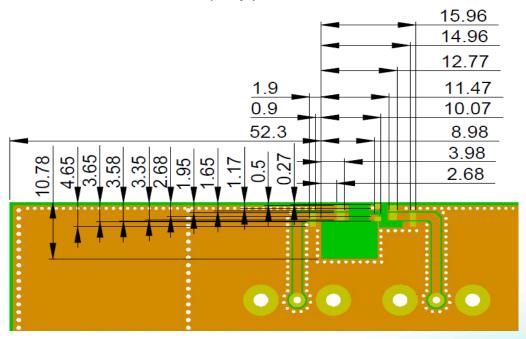
#### **OTHER SPECIFICATIONS**

## **PCB LAYOUT**

1, PCB material, FR4, size, 120X50X1mm



# 2, Clearance area (Top)









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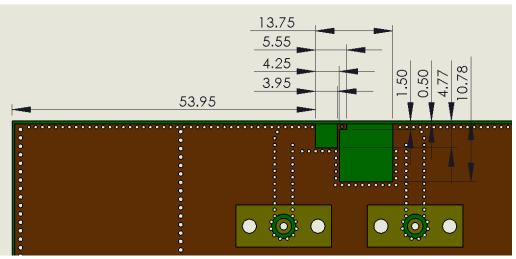
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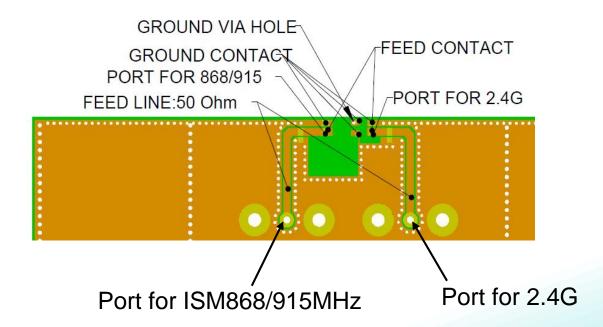
#### **OTHER SPECIFICATIONS**

## **PCB LAYOUT**

## 3, Clearance area (Bottom)



# 4, PCB Features





Description: ISM868/915, ISM2.4G

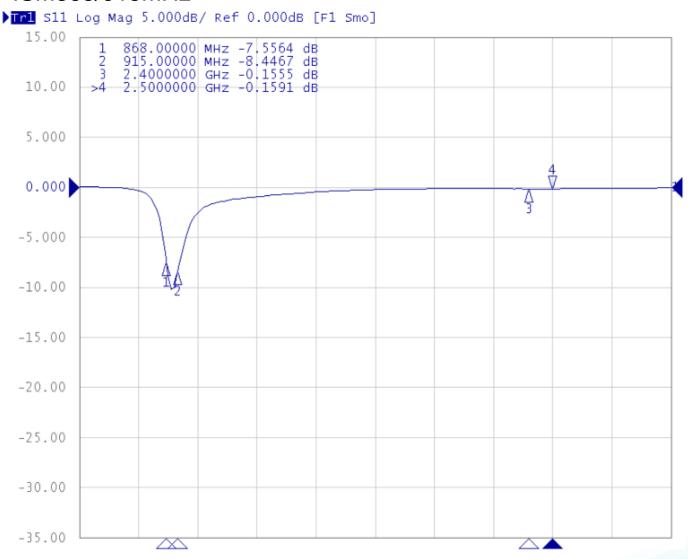
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#### **CHARTS**

## Return Loss

## ISM868/915MHz





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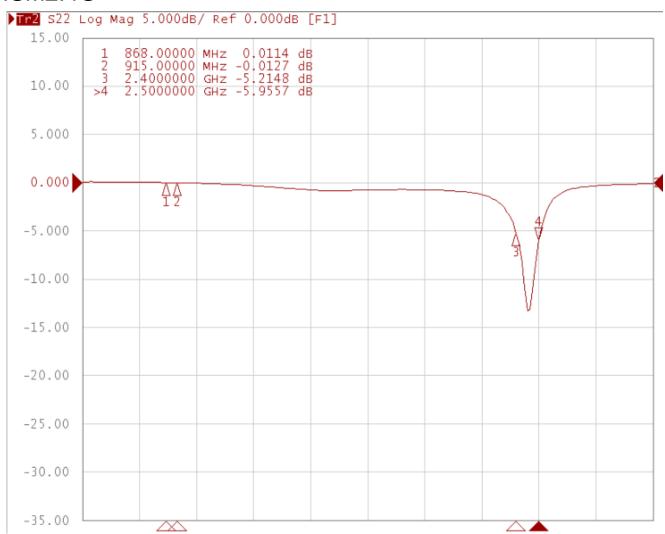
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#### **CHARTS**

## Return Loss

## ISM2.4G







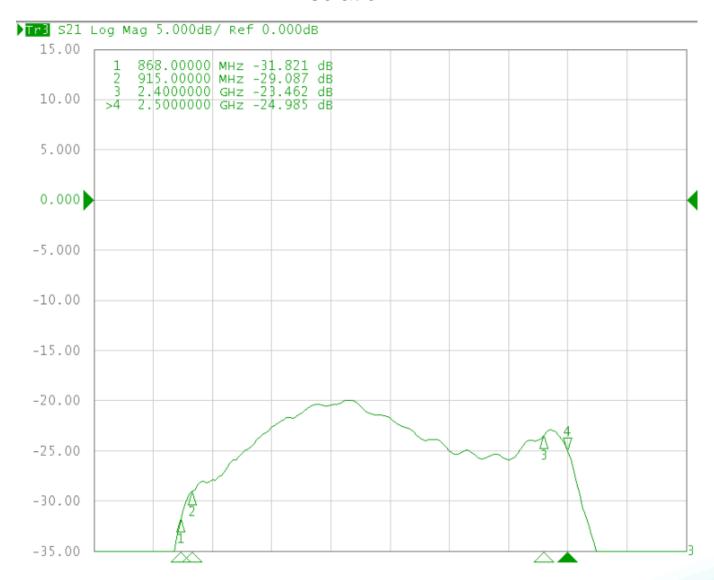
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#### **CHARTS**

## Isolation







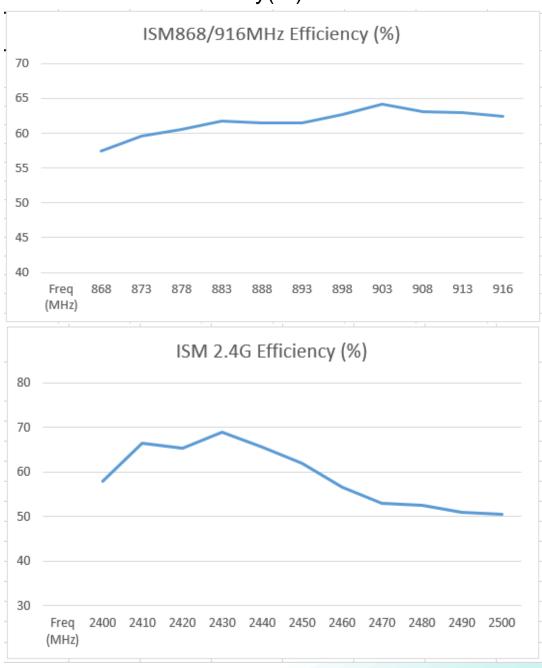


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#### **CHARTS**

# Efficiency(%)



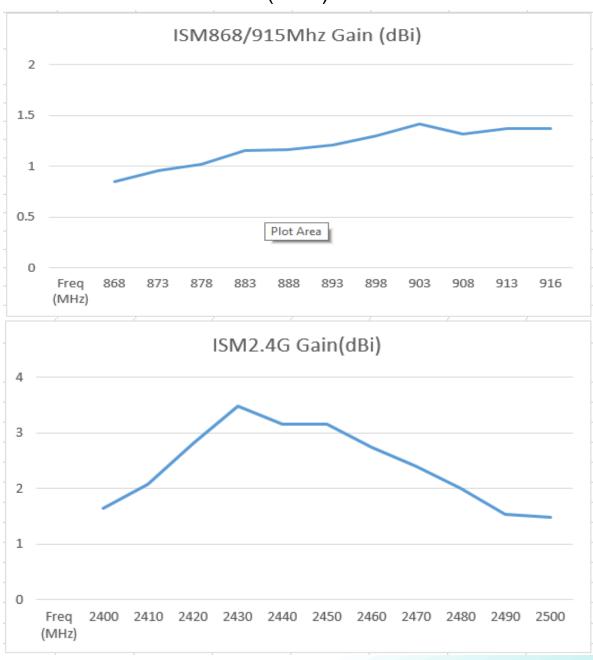


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#### **CHARTS**

# Gain (dBi)







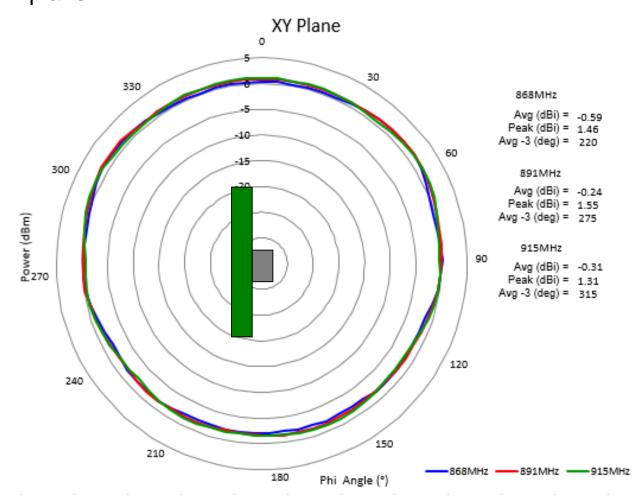
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#### **CHARTS**

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





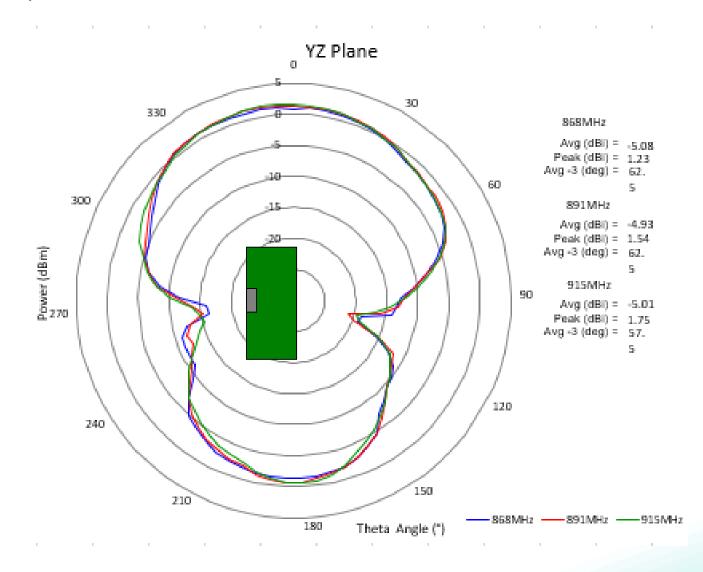
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#### **CHARTS**

# ISM868/915MHz Y-Z plane





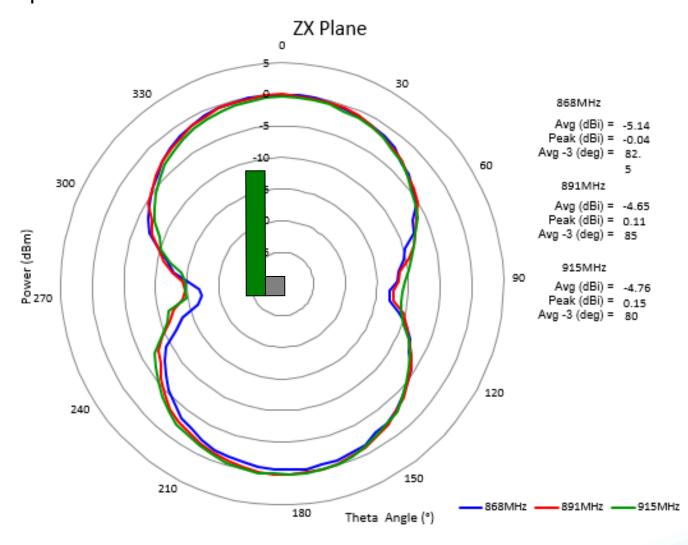


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#### **CHARTS**

# ISM868/915MHz X-Z plane







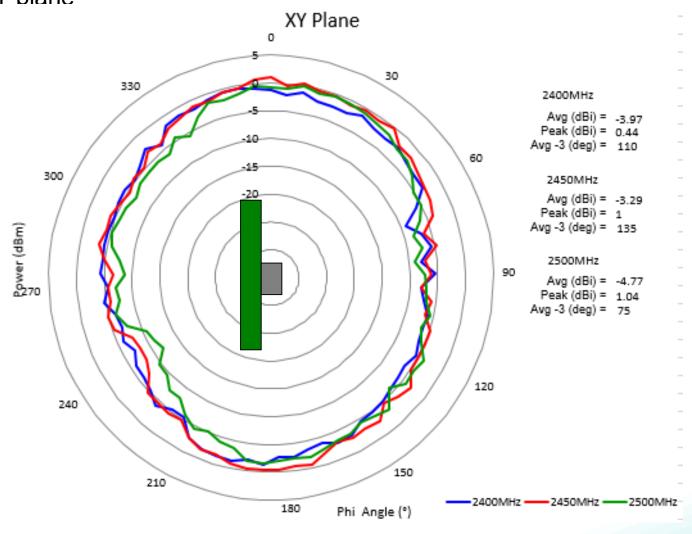
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#### **CHARTS**

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





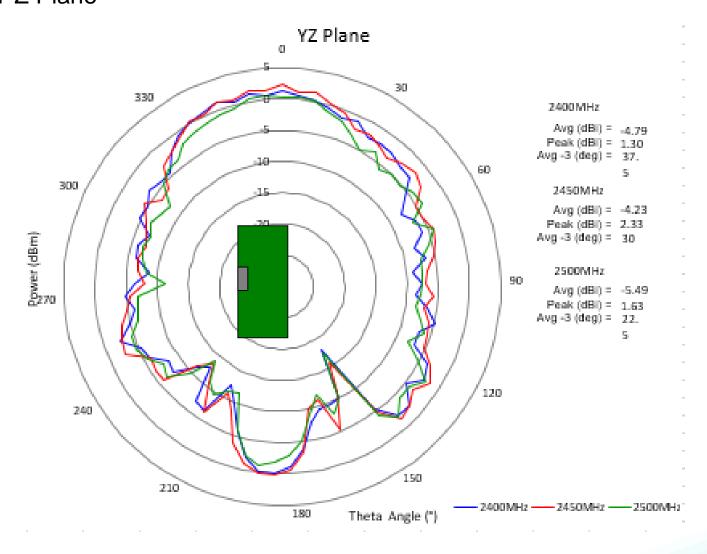
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#### **CHARTS**

ISM 2.4GHz Y-Z Plane



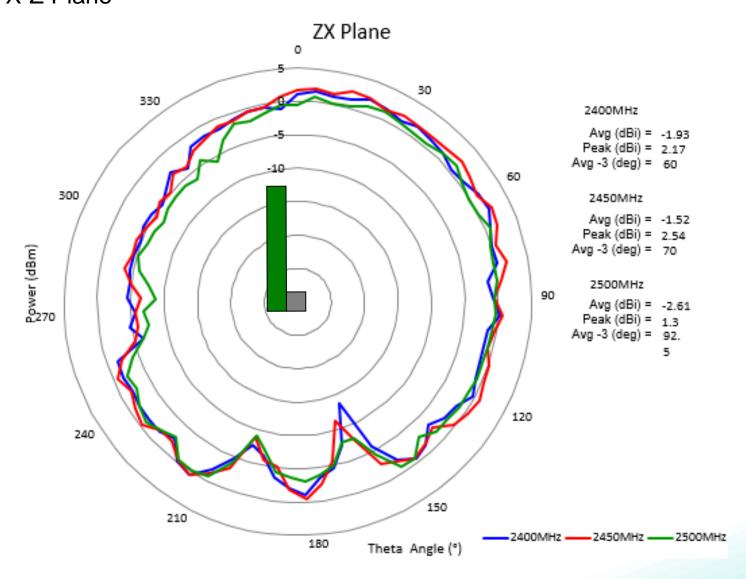


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#### **CHARTS**

ISM 2.4GHz X-Z Plane







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#### **PACKAGING**

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











#### **ПОСТАВКА** ЭЛЕКТРОННЫХ КОМПОНЕНТОВ

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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#### http://moschip.ru/get-element

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