

Series: Chip Antenna

TECHNICAL DATA SHEET Description: 902-928MHz Ceramic On Ground Antenna

PART NUMBER: W3211



Features:

- Frequency: 902-928MHz
- Size: 10 x 3.2 x 5 mm
- Gain: 1.35 dBi
- Type: On Ground
- SMD Compatible
- RoHS Compliant
- MSL level 1

Applications:

- ISM 915MHz radios
- Sensors
- IoT
- Transportation
- Industry automation

All dimensions are in mm / inches

Issue: 2049

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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Description: 902-928MHz Ceramic On Ground Antenna

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ELECTRICAL SPECIFICATIONS

Frequency	902-928MHz
Nominal Impedance	50 Ω
Return Loss Peak	-10dB
Return Loss Band edges	-3dB
Radiation Pattern	Omni
Peak Gain	1.35dBi
Efficiency	43%
Polarization	Linear
Power Withstanding	5W

MECHANICAL SPECIFICATIONS

Overall Length	10x3.2x5mm
Weight	0.73g
Antenna Color / Material	Ceramic

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40~+85° C
Storage Temperature	-40~+85° C
RoHS Compliant	Yes

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Series: Chip Antenna

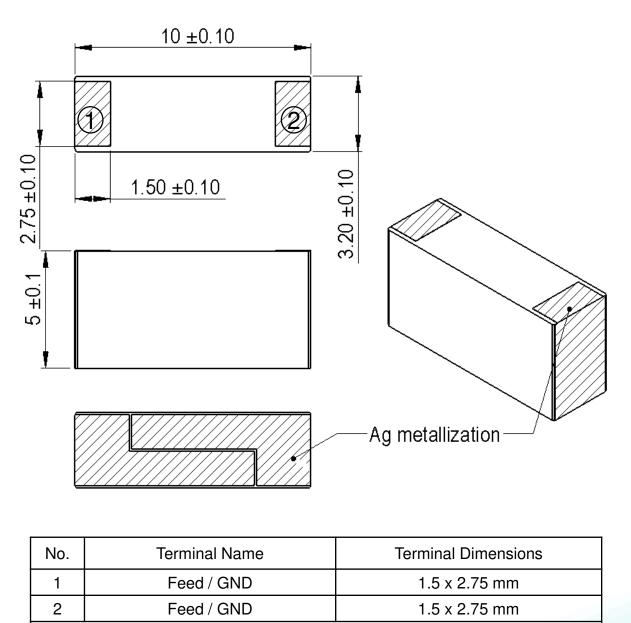
TECHNICAL DATA SHEET

Description: 902-928MHz Ceramic On Ground Antenna

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MECHANICAL DRAWING



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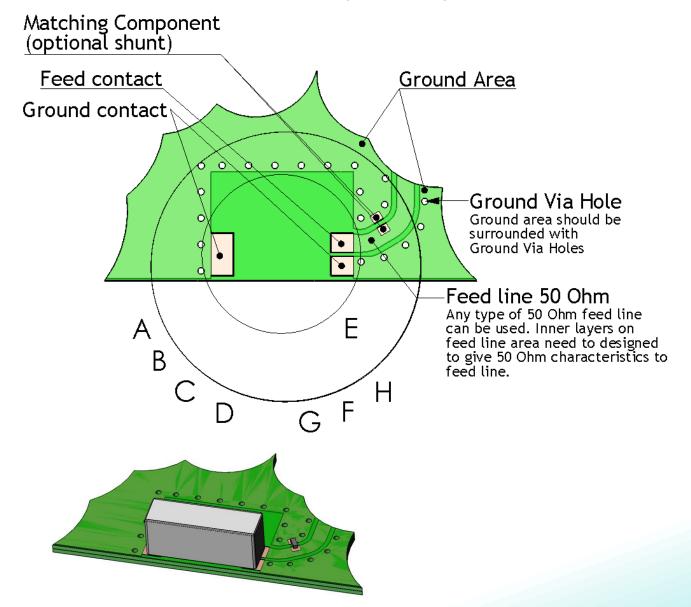
Series: Chip Antenna

Description: 902-928MHz Ceramic On Ground Antenna

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MECHANICAL DRAWING AND TERMINAL CONFIGURATION

Ground cleared under antenna TOP and MIDDLE layers, clearance area 10.8 mm x 8.25mm (BOTTOM layer solid ground)



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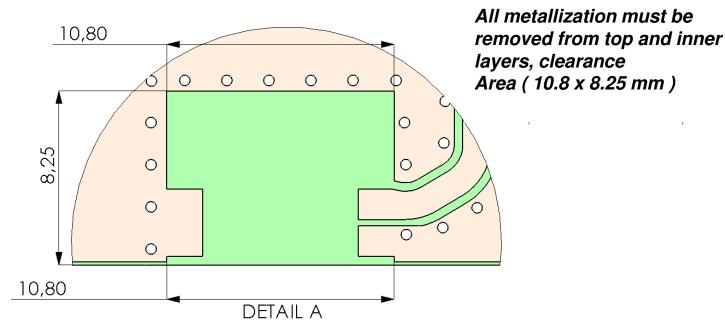
Description: 902-928MHz Ceramic On Ground Antenna

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MECHANICAL DRAWING AND TERMINAL CONFIGURATION

Recommended Antenna Pad Dimensions on PCB Layout (top surface) Ground cleared under antenna on top and inner layers, clearance area 10.8 mm x 8.25 mm



Ground clearance area (10.80 x 8.25 mm)

Bottom solid ground layer

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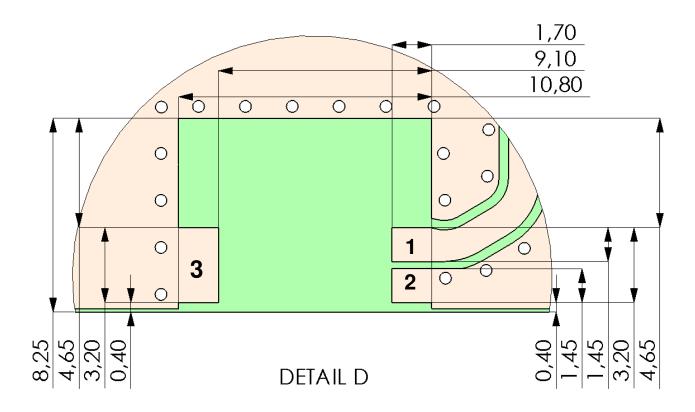
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MECHANICAL DRAWING AND TERMINAL CONFIGURATION

Recommended Antenna Pad Dimensions on PWB Layout (top surface)



PCB contact pads		
No.	Terminal Name	Terminal Dimensions
1	Feed	1.70 x 1.45 mm
2	GND	1.70 x 1.45 mm
3	GND	1.70 x 3.20 mm

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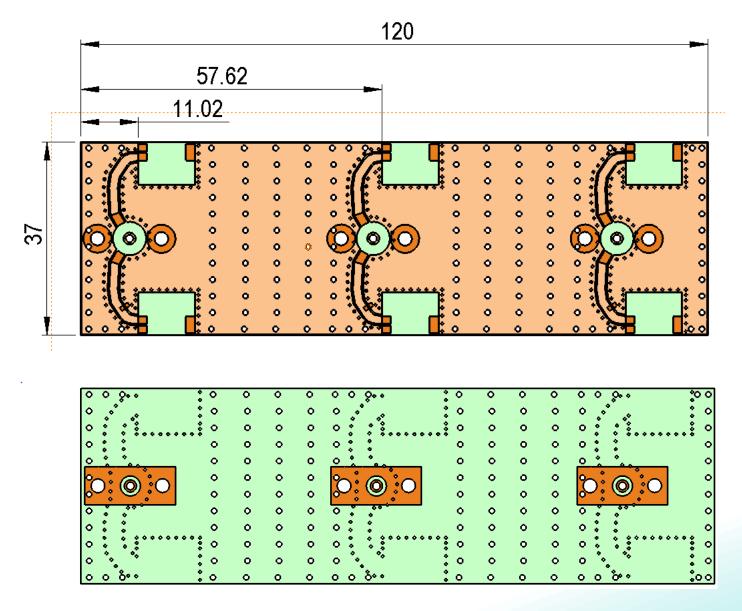
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MECHANICAL DRAWING AND TERMINAL CONFIGURATION

Recommended test board layout for electrical characteristic measurement, test board outline size 120 x 37mm



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TECHNICAL DATA SHEET

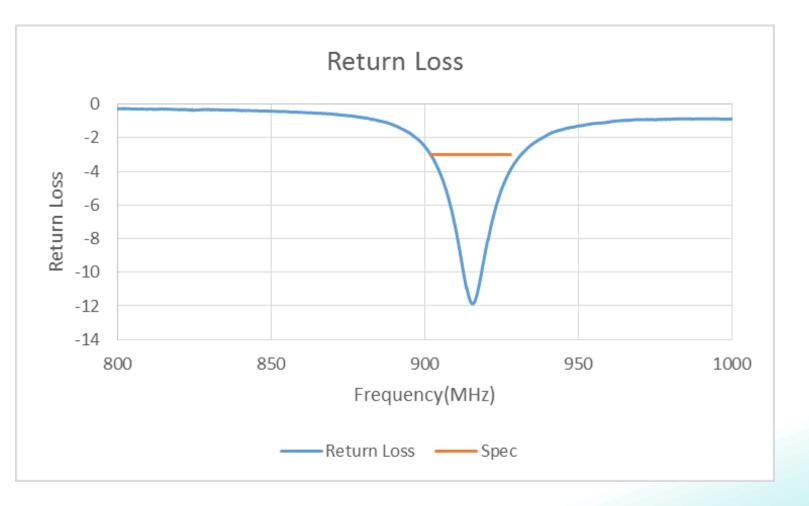
Description: 902-928MHz Ceramic On Ground Antenna

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CHARTS

Measured on the 120x37mm test board with matching circuit, 10pF shunt capacitor, position center location of test board edge.

Ground cleared under antenna, clearance area 10.80 mm x 8.25 mm top and middle layers.



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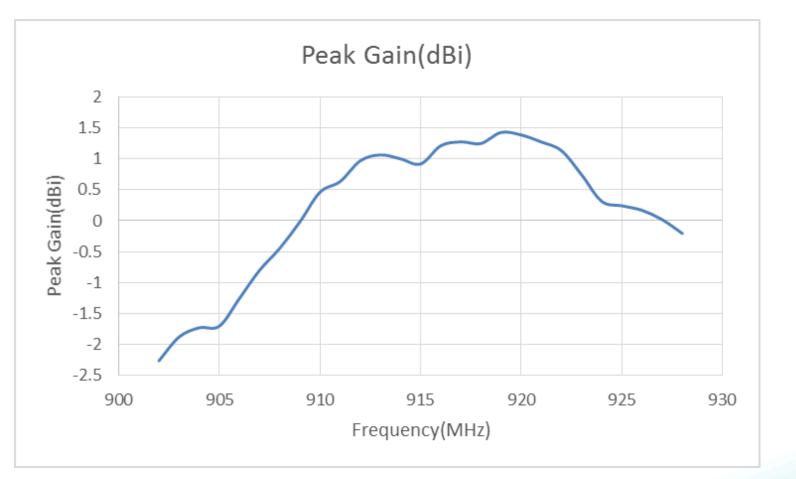
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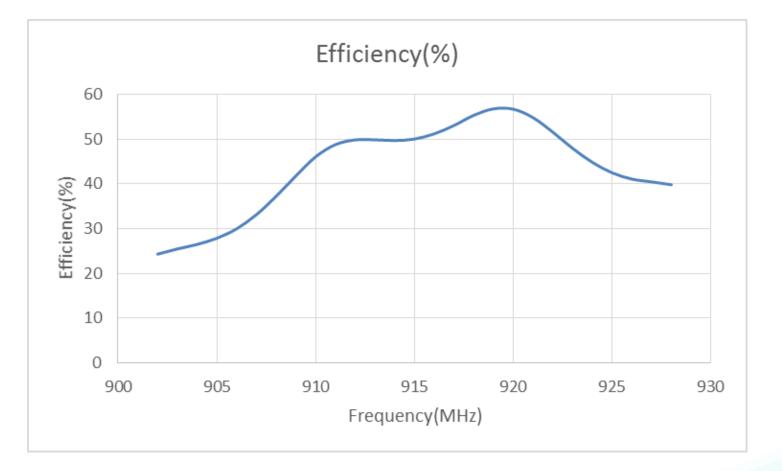
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ROHS 10



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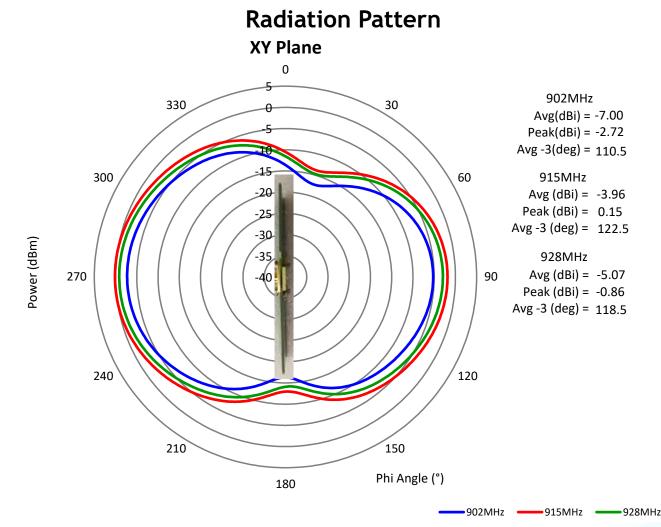
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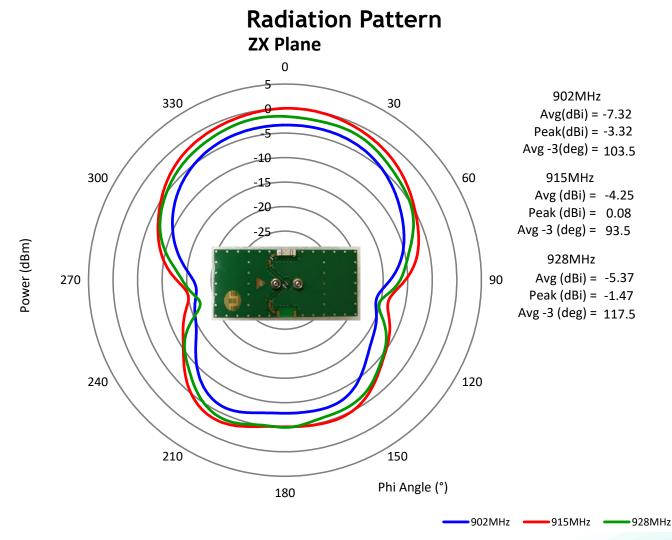
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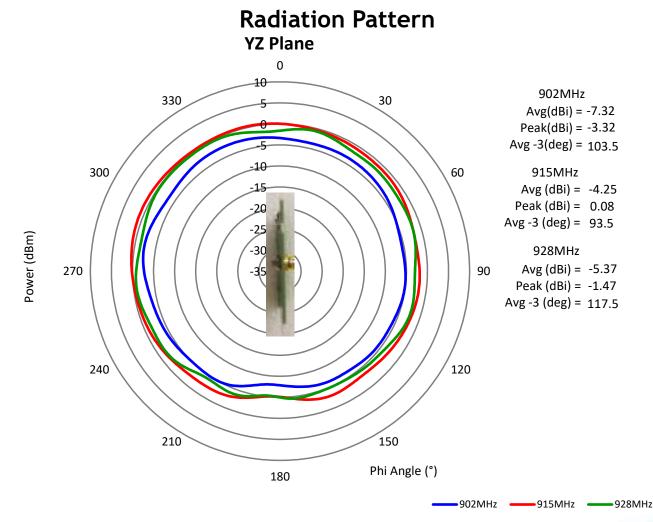
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PACKAGING

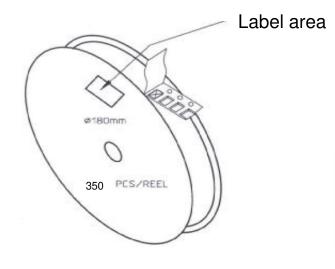
350pcs antennas per 7" reel

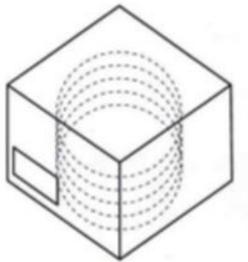
3pcs 7" reel per inner package box

2pcs inner box per out box

Total 2100pcs antenna per out box

Out box size: 390mmx215mmx165mm





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