

2.1 GHz RX Diversity Ceramic Antenna

Ground cleared under antenna, clearance area 10.60 x 6.25 mm

Pulse Part Number: W3030



Features

- Omnidirectional radiation
- Low profile
- Compact size W x L x H (10 x 3.2 x 2 mm)
- Low weight (310 mg)
- Lead free materials
- Fully SMD compatible
- Lead free soldering compatible
- Tape and reel packing
- RoHS Compliant Product

Applications

- W-CDMA
- 2.11-2.17 GHz

Electrical specifications @ +25 °C

Note: Electrical characteristics depend on test board (GP) size and antenna positioning on GP and Ground Clearance area size.

RX Diversity 2.11-2.17 GHz

Typical performance (test board size 80 x 37 mm, PWB ground clearance area 10.60 x 6.25 mm)

Frequency Range [MHz]	Linear Max Gain [dBi]	Efficiency [%] / [dB]	Return Loss min. [dB]	Impedance [Ω]	Operating Temperature [°C]
2110 – 2170	2 (peak) 1.5 (band edges)	80 / -1 (peak) 70 / -1.55 (band edges)	-10	50	-40 to +85

Pulse Antennas

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Typical Electrical Characteristics (T=25 °C)

Measured on the 80 x 37 mm test board

Typical Return Loss S11/impedance

W-CDMA Diversity RX

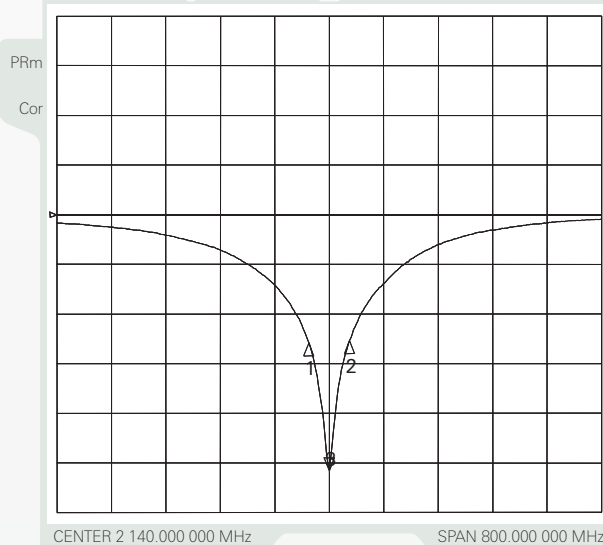
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CH1 S11 LOG

7 dB/REF 0 dB

CH1Markers

- | | | |
|----|------------|-------------------|
| 1. | -18.101 dB | 2.11000 GHz |
| 2. | -17.767 dB | 2.17000 GHz |
| 3. | -36.135 dB | 2.140.000 000 MHz |



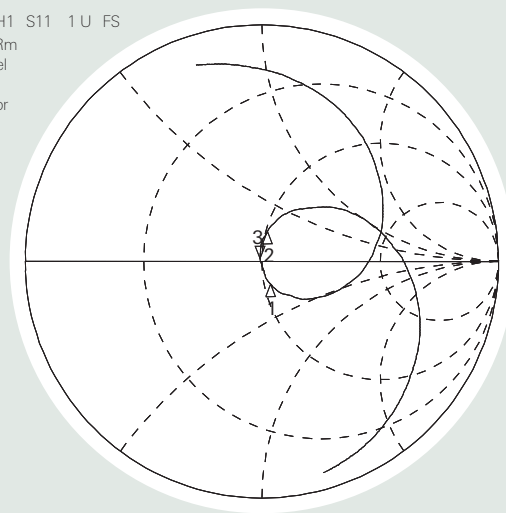
W-CDMA Diversity RX

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CH1Markers

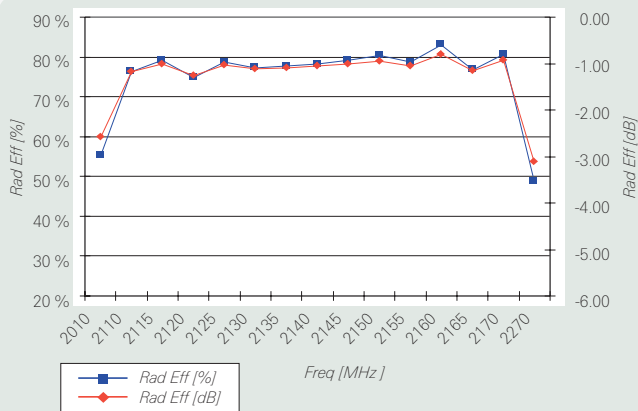
- | | | | |
|----|-----------------|------------------|-------------------|
| 1. | 52.707 Ω | -10.217 Ω | 2.11000 GHz |
| 2. | 50.678 Ω | 13.068 Ω | 2.17000 GHz |
| 3. | 49.213 Ω | 1.1719 Ω | 87.154 pF |
| | | | 2 140.000 000 MHz |

CH1 S11 1 U FS
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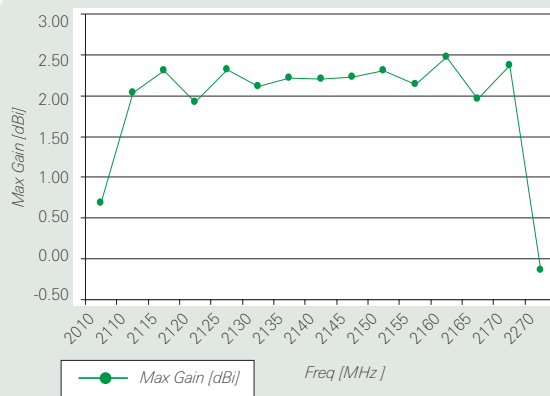


Free space efficiency and maximum gain

RX Diversity 2110–2170 Mhz



RX Diversity 2110–2170 Mhz



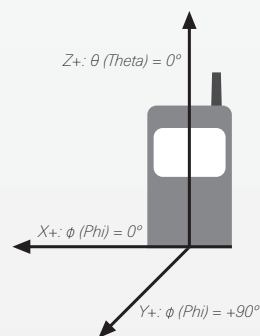
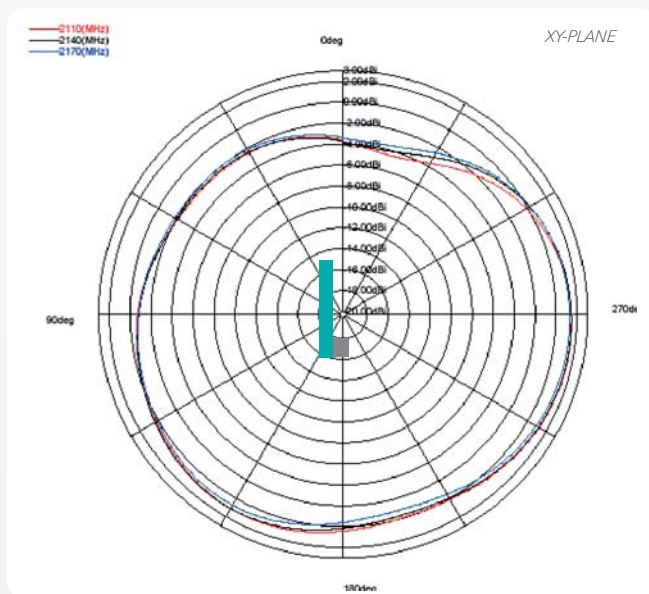
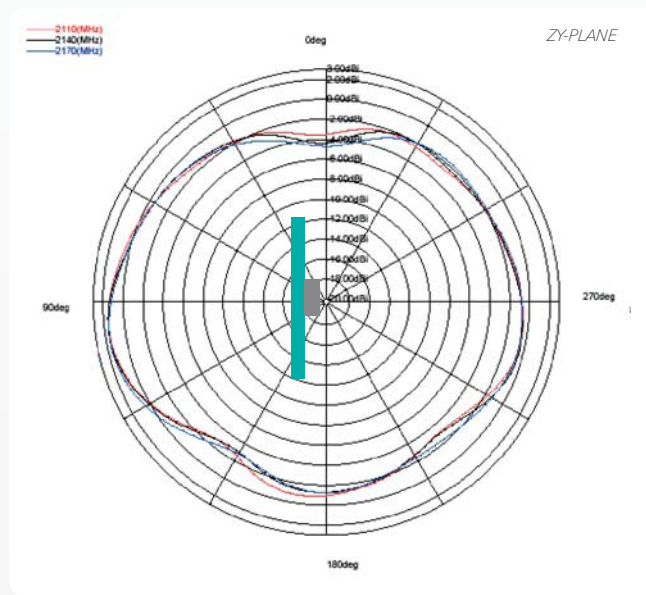
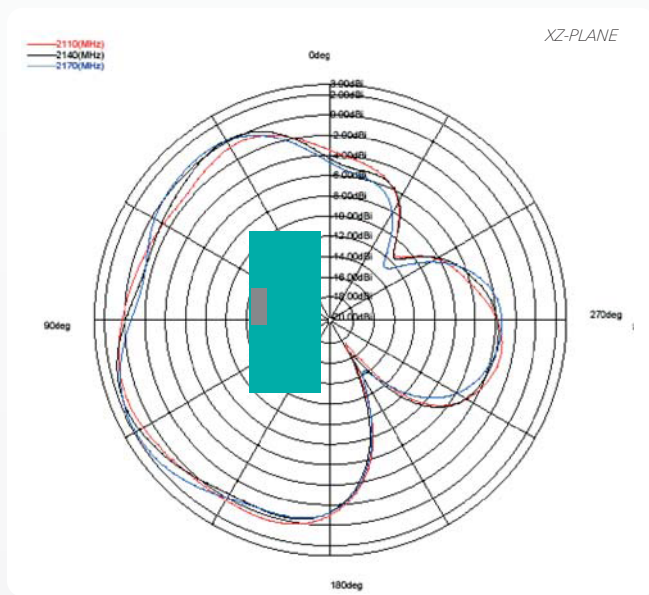
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Typical Free Space Radiation Patterns



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