

# 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 [ $\Omega$ ]	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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[www.pulseeng.com/antennas](http://www.pulseeng.com/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

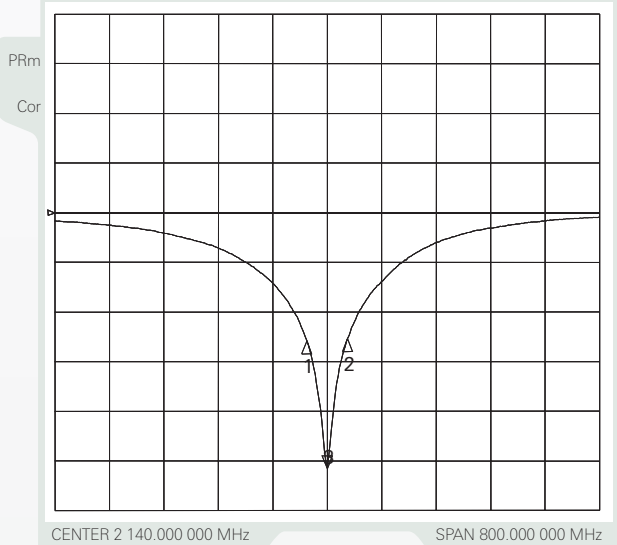
#### W-CDMA Diversity RX

14 Sep 2006 16:01:48

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



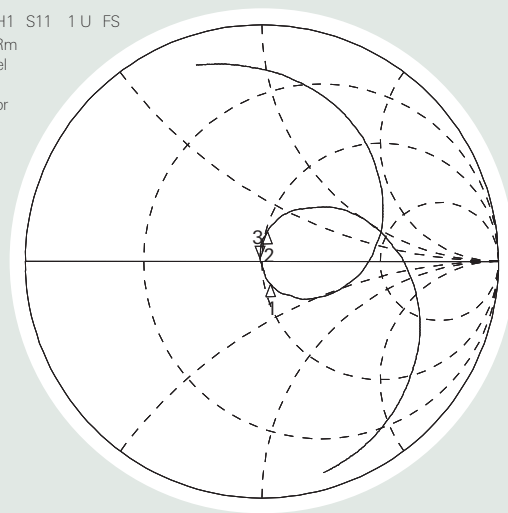
#### W-CDMA Diversity RX

14 Sep 2006 16:02:44

CH1Markers

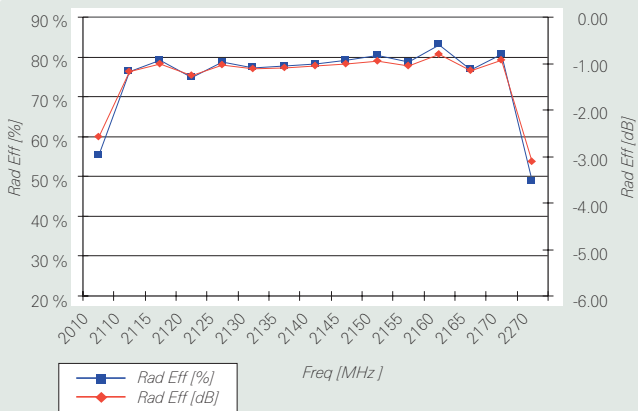
- 1. 52.707 Ω -10.217 Ω 2.11000 GHz
- 2. 50.678 Ω 13.068 Ω 2.17000 GHz
- 3. 49.213 Ω 1.1719 Ω 87.154 pF 2 140.000 000 MHz

CH1 S11 1 U FS  
PRm  
Del  
Cor

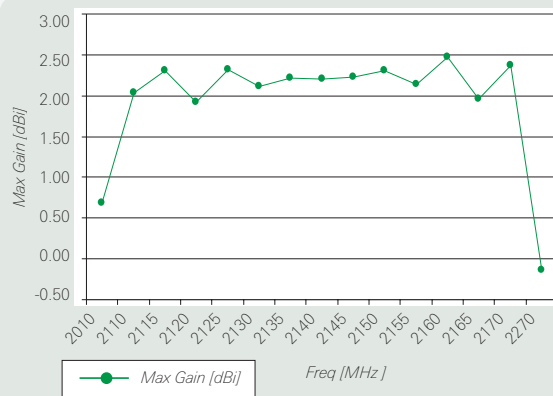


### Free space efficiency and maximum gain

#### RX Diversity 2110–2170 Mhz



#### RX Diversity 2110–2170 Mhz



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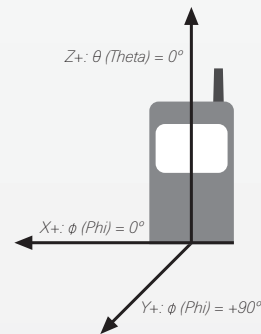
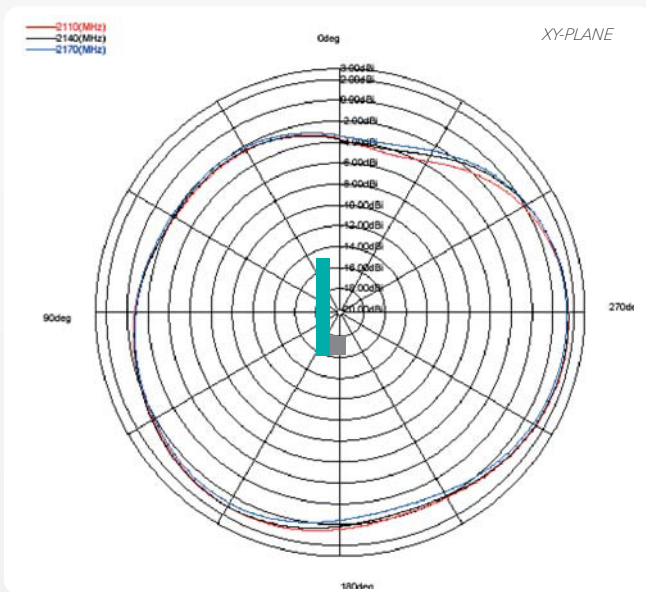
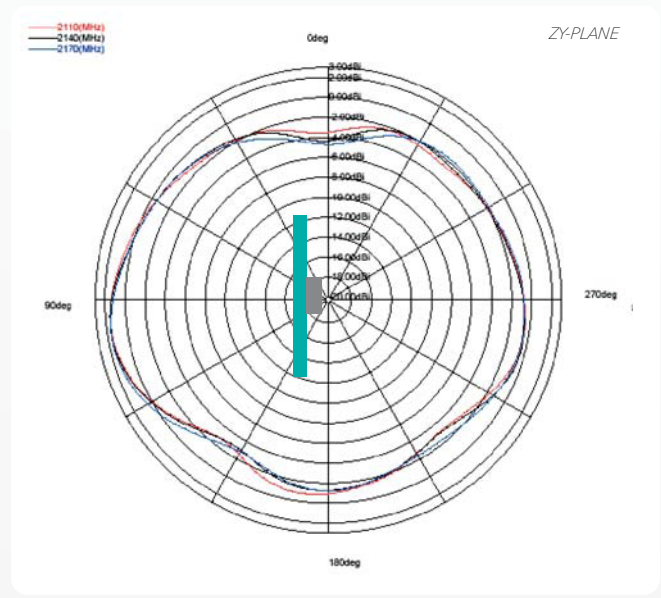
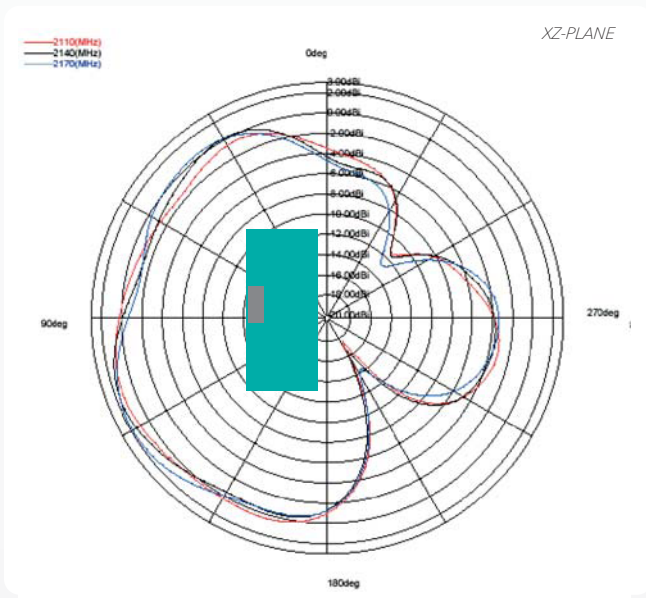
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## Typical Free Space Radiation Patterns



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