

# 900 MHz RX Diversity Ceramic Antenna

Ground cleared under antenna, clearance area 10.60 x 8.25 mm

Pulse Part Number: W3032



## Features

- Omnidirectional radiation
- Low profile
- Compact size W x L x H (10 x 3.2 x 4 mm)
- Low weight (600 mg)
- Lead free materials
- Fully SMD compatible
- Lead free soldering compatible
- Tape and reel packing
- RoHS Compliant Product

## Applications

- E-GSM 900 Band
- 925-960 MHz

## 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 925-960 MHz

Typical performance (test board size 100 x 37 mm, PWB ground clearance area 10.60 x 8.25 mm)

| Frequency Range [MHz] | Linear Max Gain [dBi]      | Efficiency [%] / [dB]                      | Return Loss min. [dB] | Impedance [ $\Omega$ ] | Operating Temperature [°C] |
|-----------------------|----------------------------|--|-----------------------|------------------------|----------------------------|
| 925-960               | 2 (peak)<br>0 (band edges) | 65 / -1.9 (peak)<br>45 / -3.5 (band edges) | -5                    | 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 100 x 37 mm test board

### Typical Return Loss S11/impedance

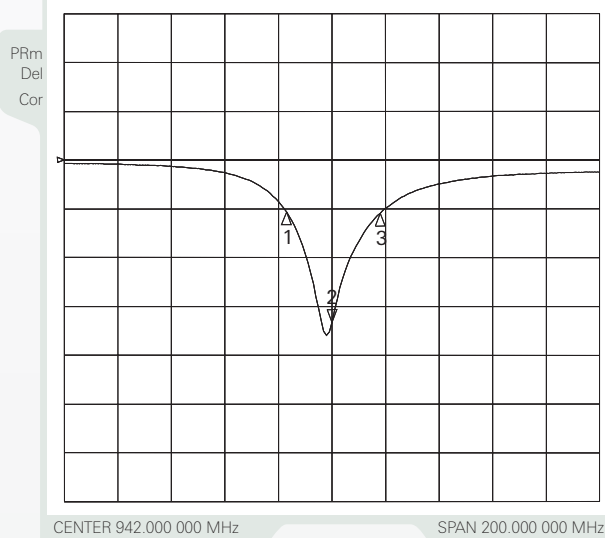
#### GSM 900 RX Diversity

15 Sep 2006 10:22:18

CH1 S11 LOG 5 dB/REF 0 dB

CH1Markers

- 1. -5.3044 dB 925.000 MHz
- 2. -16.663 dB 942.000 MHz
- 3. -5.4544 dB 960.000 MHz



#### GSM 900 RX Diversity

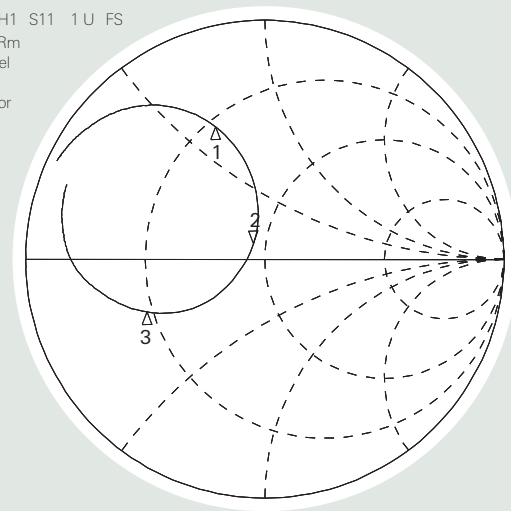
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CH1Markers

- 1. 18.497 Ω 31.482 Ω 925.000 MHz
- 2. 45.139 Ω 5.9180 Ω 999.87 pF
- 3. 15.538 Ω -9.7031 Ω 960.000 MHz

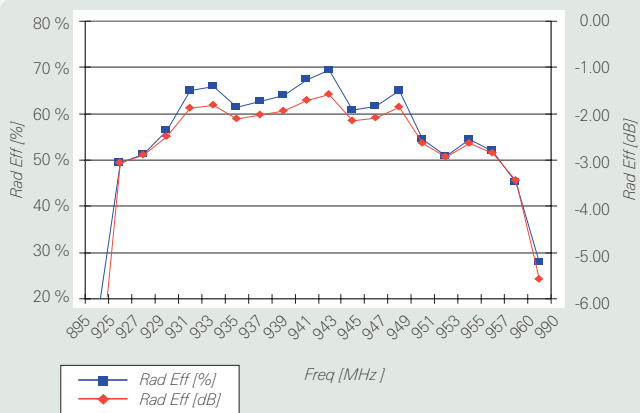
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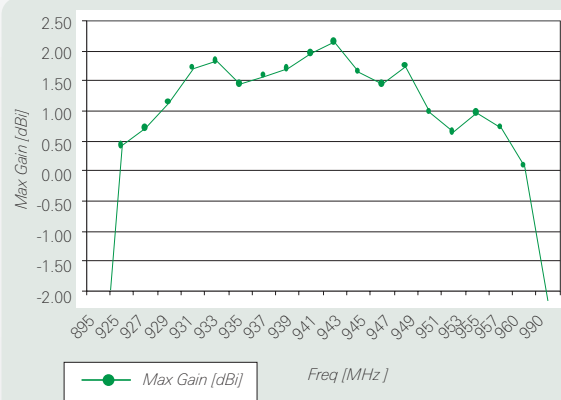


### Free space efficiency and maximum gain

#### RX Diversity 925-960 MHz



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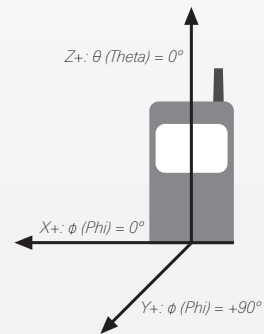
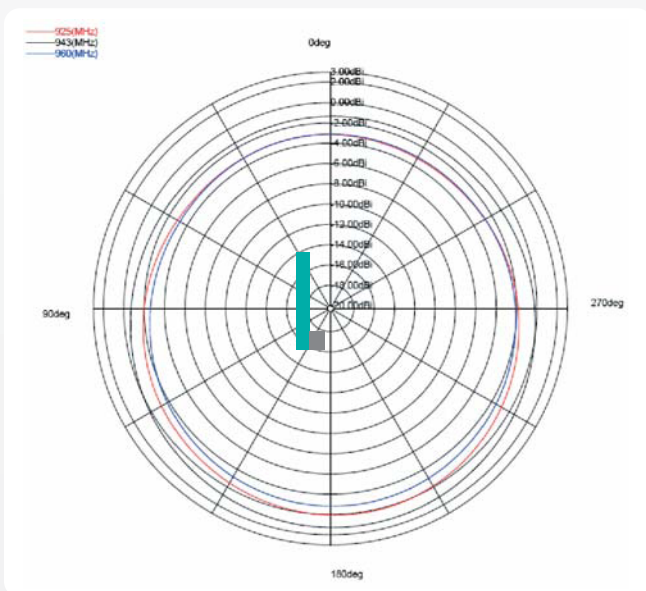
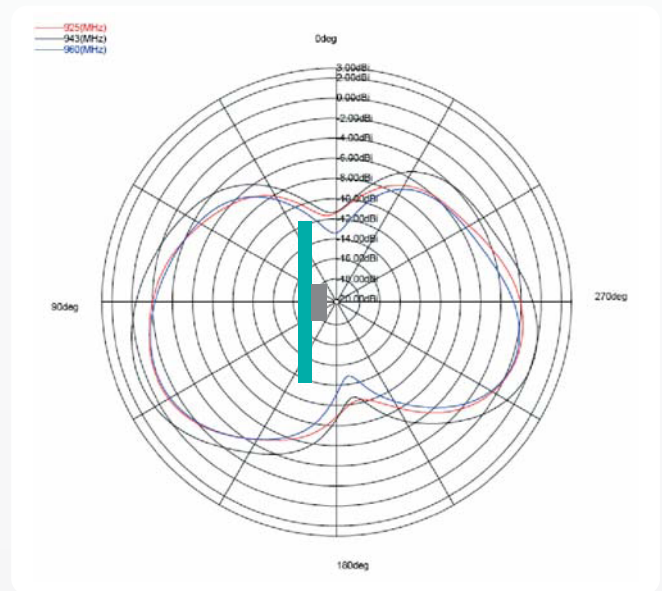
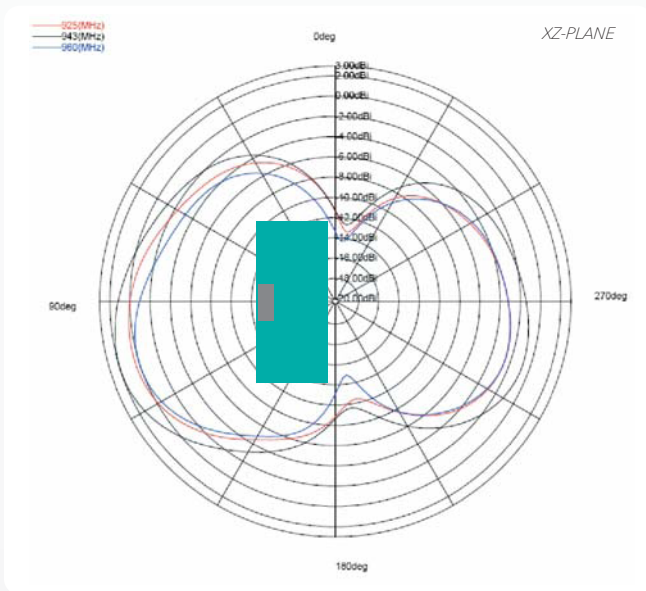
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## Typical Free Space Radiation Patterns



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