

1.9 GHz RX Diversity Ceramic Antenna

Ground cleared under antenna, clearance area 10.60 x 6.25 mm

Pulse Part Number: W3029



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

- GSM 1900 MHz band (PCS)
- 1.93-1.99 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 1930-1990 MHz

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]
1930 – 1990	2 (peak) 1.3 (band edges)	80 / -1 (peak) 70 / -1.55 (band edges)	-10	50	-40 to +85

Pulse Antennas

Takatie 6
90440 Kempele, Finland
Tel: +358 207 935 500
Fax: +358 207 935 501
www.pulseeng.com/antennas



1.9 GHz RX Diversity Ceramic Antenna

Ground cleared under antenna, clearance area 10.60 x 6.25 mm

Typical Electrical Characteristics (T=25 °C)

Measured on the 80 x 37 mm test board

Typical Return Loss S11/impedance

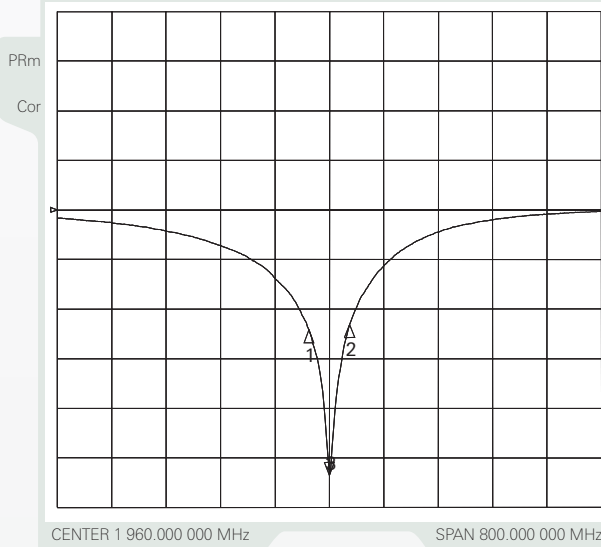
GSM 1900 RX Diversity

14 Sep 2006 15:59:03

CH1Markers

- 1. -16.913 dB 1.93000 GHz
- 2. -16.166 dB 1.99000 GHz
- 3. -37.462 dB 1.960.000 000 MHz

CH1 S11 LOG 7 dB/REF 0 dB



GSM 1900 RX Diversity

14 Sep 2006 16:00:22

CH1Markers

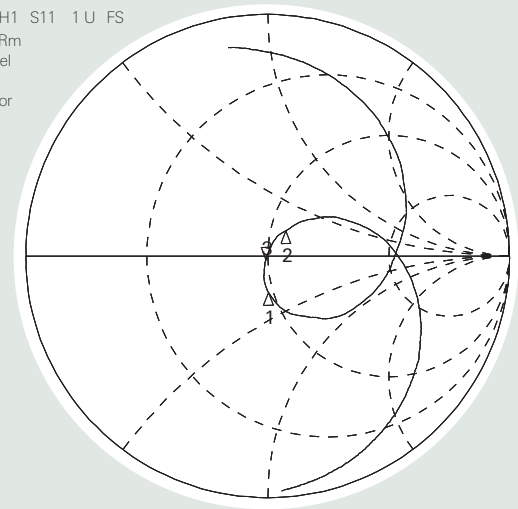
- 1. 48.045 Ω -14.959 Ω 1.93000 Ghz
- 2. 56.842 Ω 12.104 Ω 1.99000 GHz
- 3. 49.209 Ω -1.6836 Ω 48.231 pF 1.960.000 000 MHz

CH1 S11 1 U FS

PRm

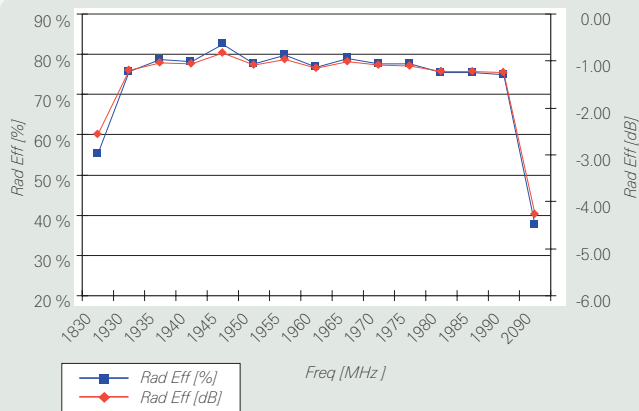
Del

Cor

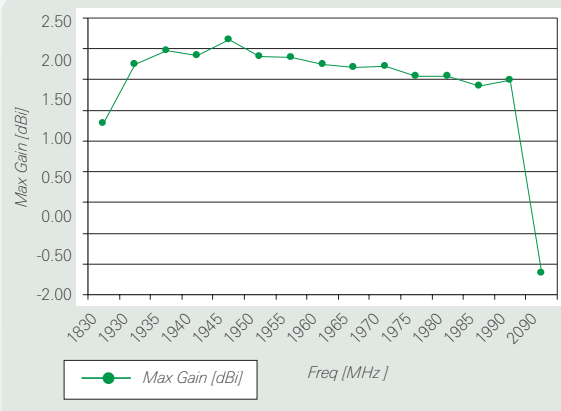


Free space efficiency and maximum gain

RX Diversity 1930–1990 Mhz



RX Diversity 1930–1990 Mhz



Pulse Antennas

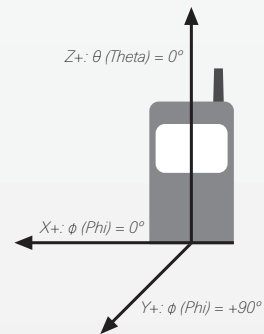
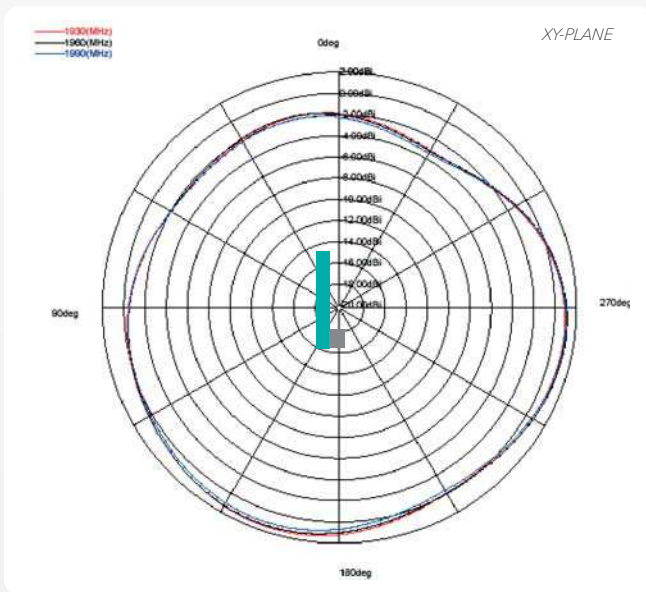
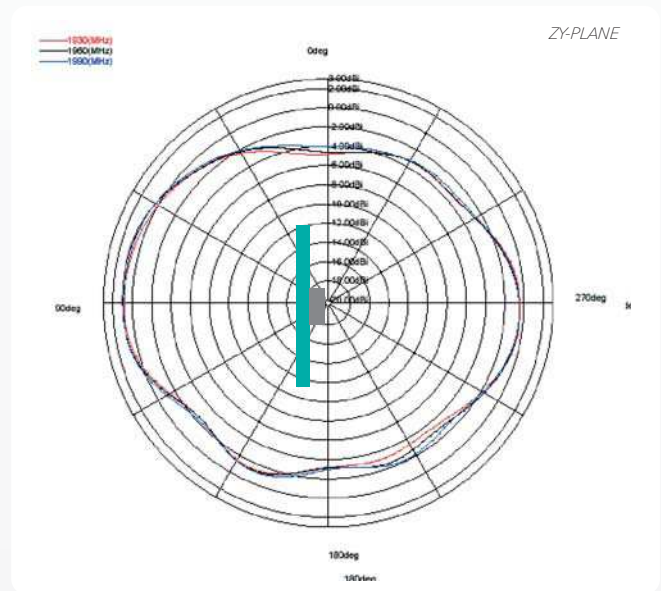
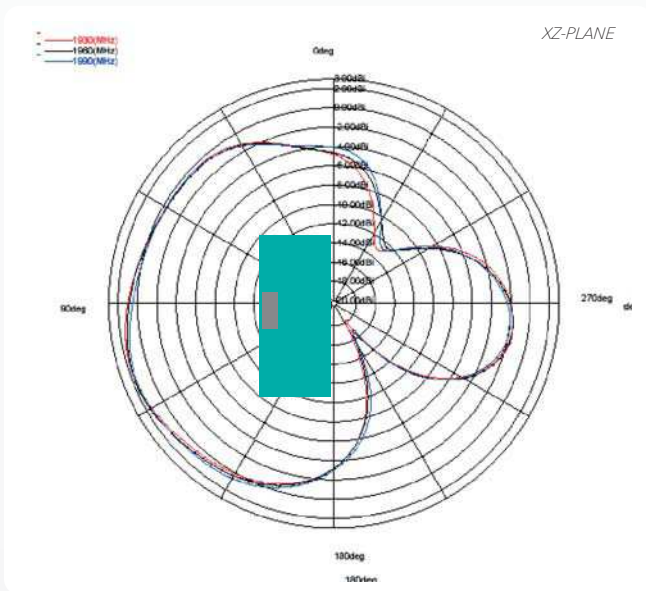
Takatie 6
90440 Kempele, Finland
Tel: +358 207 935 500
Fax: +358 207 935 501
www.pulseeng.com/antennas



1.9 GHz RX Diversity Ceramic Antenna

Ground cleared under antenna, clearance area 10.60 x 6.25 mm

Typical Free Space Radiation Patterns



Pulse Antennas

Takatie 6
90440 Kempele, Finland
Tel: +358 207 935 500
Fax: +358 207 935 501
www.pulseeng.com/antennas

