



# THE DATASHEET OF W3031



## 850 MHz RX Diversity Ceramic Antenna

Ground cleared under antenna, clearance area 10.60 x 8.25 mm

Pulse Part Number: W3031



### 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

- GSM 850 Band
- 869-894 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 869-894 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 [Ω] | Operating Temperature [°C] |
|-----------------------|--------------------------------|---------------------------------------------|-----------------------|---------------|----------------------------|
| 869-894               | 2.3 (peak)<br>0.2 (band edges) | 75 / -1.25 (peak)<br>45 / -3.5 (band edges) | -5.5                  | 50            | -40 to +85                 |

### Pulse Antennas

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[www.pulseeng.com/antennas](http://www.pulseeng.com/antennas)



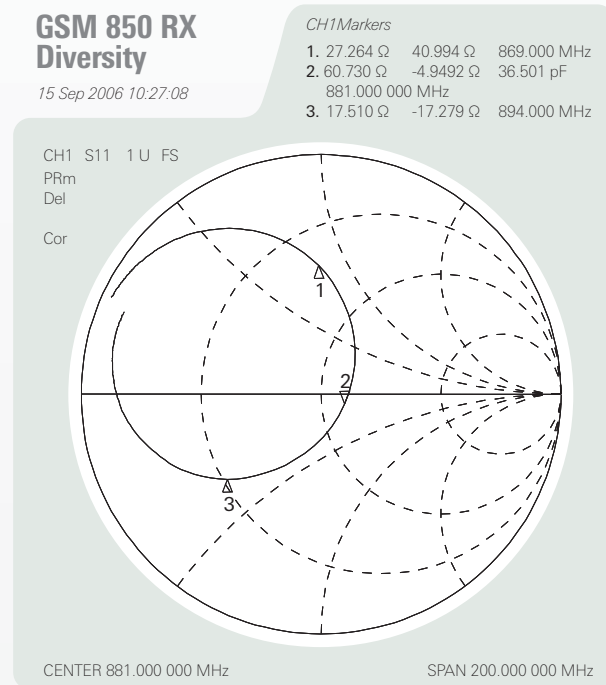
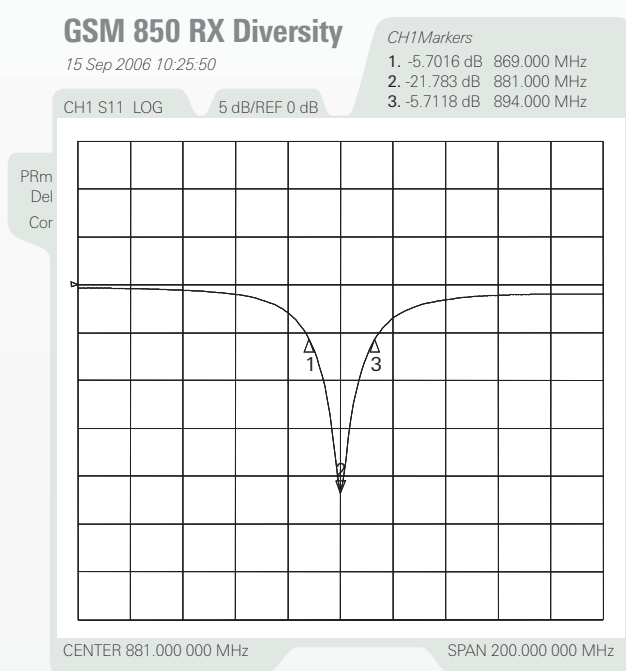
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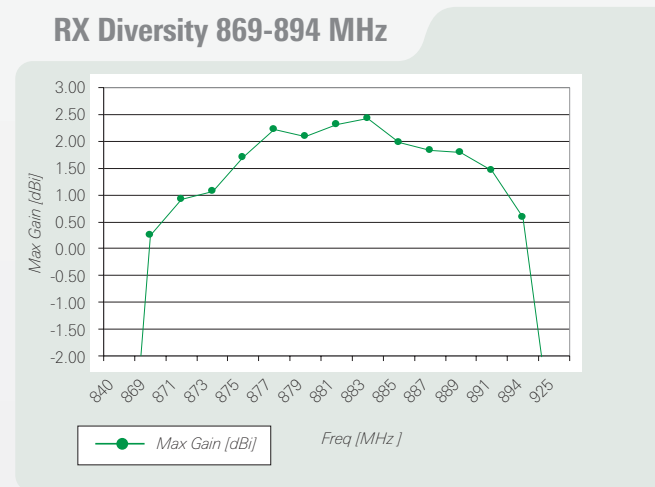
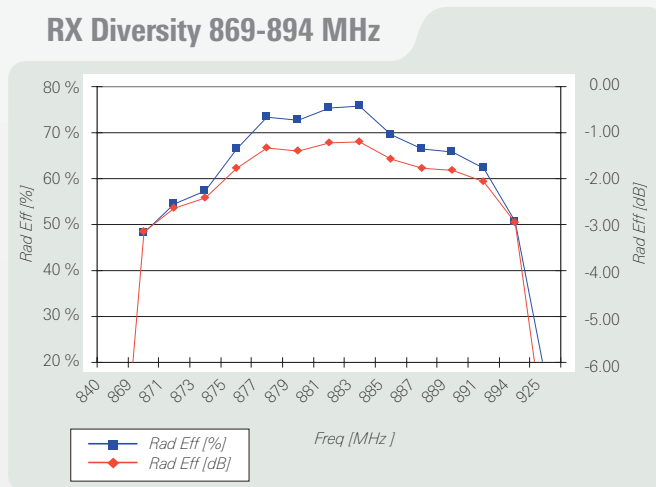
## Typical Electrical Characteristics (T=25 °C)

Measured on the 100 x 37 mm test board

Typical Return Loss S11/impedance



Free space efficiency and maximum gain



### Pulse Antennas

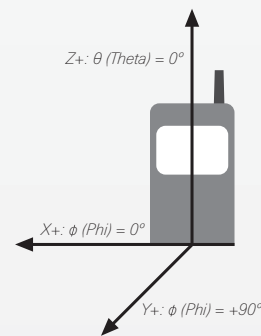
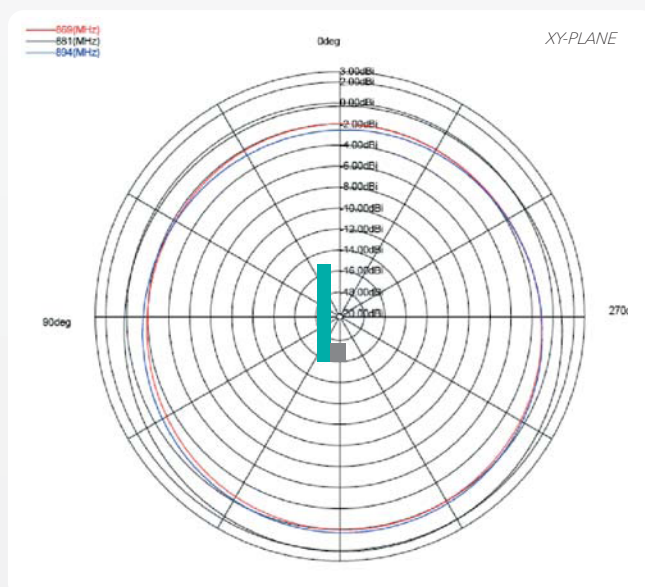
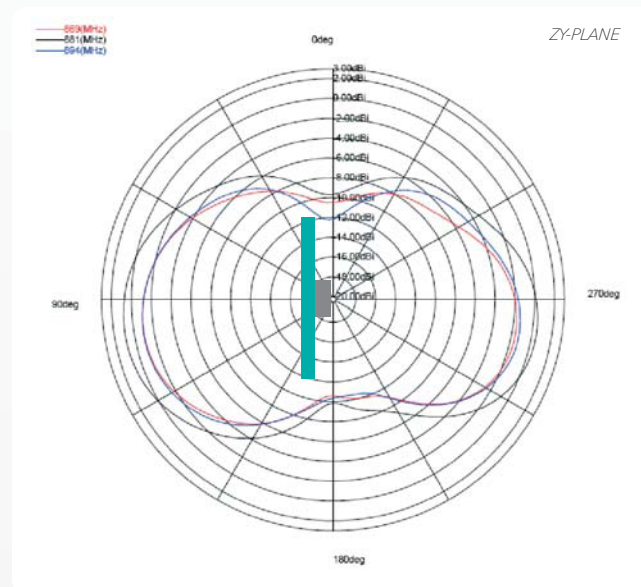
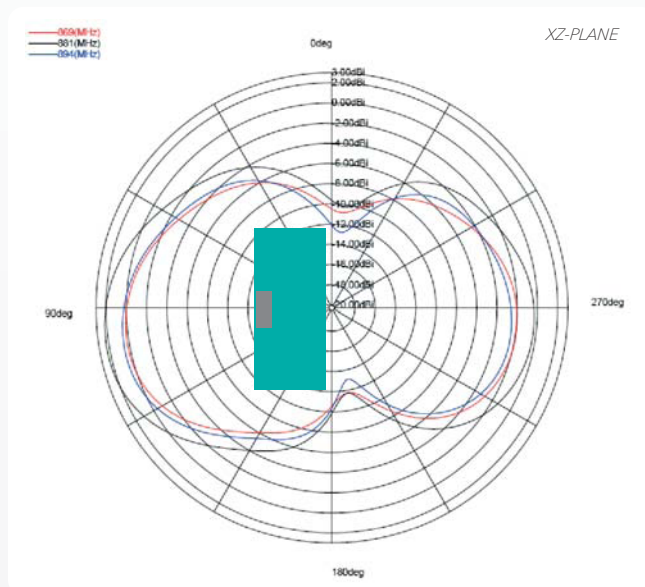
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## Typical Free Space Radiation Patterns



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