

ISM 900MHz Helical SMD-Antenna

Ground cleared under antenna, clearance area 6.00 x 11.00 mm. Pulse Part Number: W3112A



Features

- Vertical mount on board
- Compact size WxLxH (2.5 x 8 x 8 mm)
- Low weight (390 mg)
- Lead Free materials
- Fully SMD compatible
 - Glue needed between antenna and PWB
- Lead free soldering compatible
- Tape and reel packing
- RoHS Compliant Product

Applications

- 900MHz ISM Band Systems
- Engineering samples available*

Electrical specifications @ +25 °C

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

ISM 900MHz

Typical performance (testboard size 100 x 40 mm, PWB ground clearance area 6.00 x 11.00 mm)

| Frequency Range [MHz] | Max Gain [dBi] | Efficiency [%] / [dB] | Return loss min. [dB] | Impedance [Ω] | Operating Temperature [°C] |
|-----------------------|---------------------------------|--|-----------------------|------------------------|----------------------------|
| 902 – 928 | 0.9 (peak) -0.3 (band edges) | 67 / -1.7 (peak) 50 / -3 (band edges) | -10 | 50 | -40 to +85 |

Pulse Finland Oy

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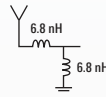


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Typical Electrical Characteristics (T=25 °C)

Typical Return Loss S11/ impedance, measured on the 100 x 40 mm test board with matching circuit



Dualband WLAN

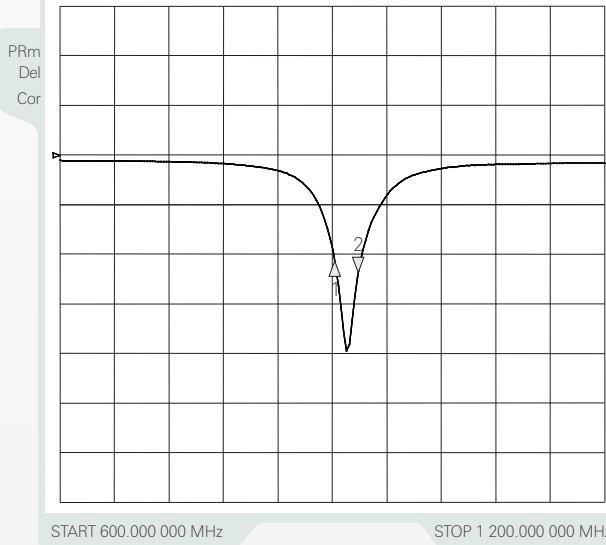
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CH1Markers

- 1. -10.616 dB 902.000 MHz
- 2. -11.740 dB 928.000 000 MHz

CH1 S11 LOG

5 dB/REF 0 dB

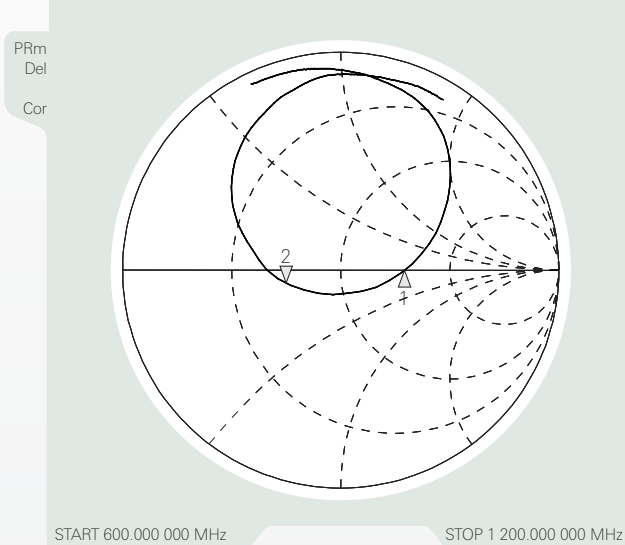


Dualband WLAN

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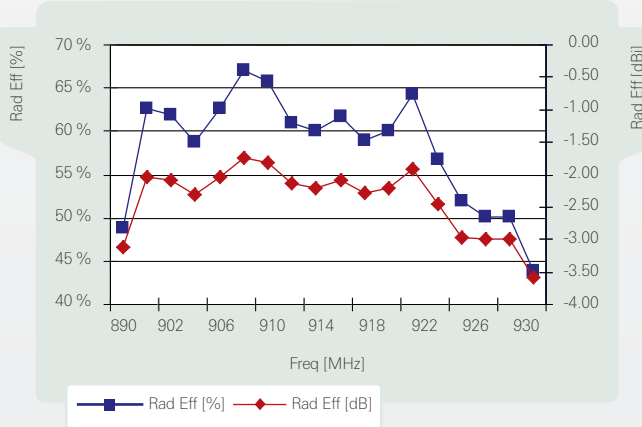
- 1. 92.414 Ω 0.4141 Ω 902.000 MHz
- 2. 29.924 Ω -3.8193 Ω 44.904 pF
- 928.000 000 MHz

CH1 S11 1 U FS



Free space efficiency and maximum gain, PWB ground clearance area 6.00 x 11.00 mm

ISM 900 MHz Ver Helical Antenna



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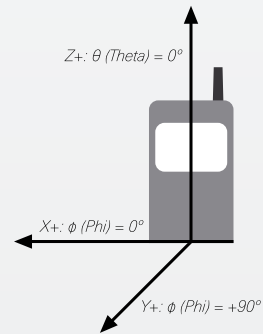
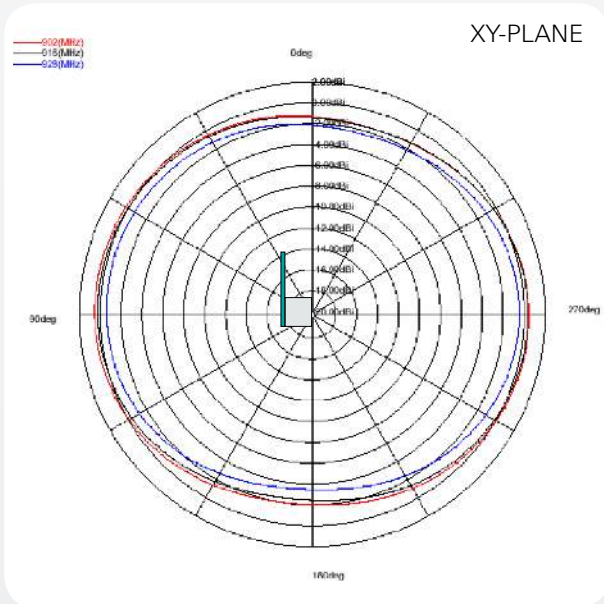
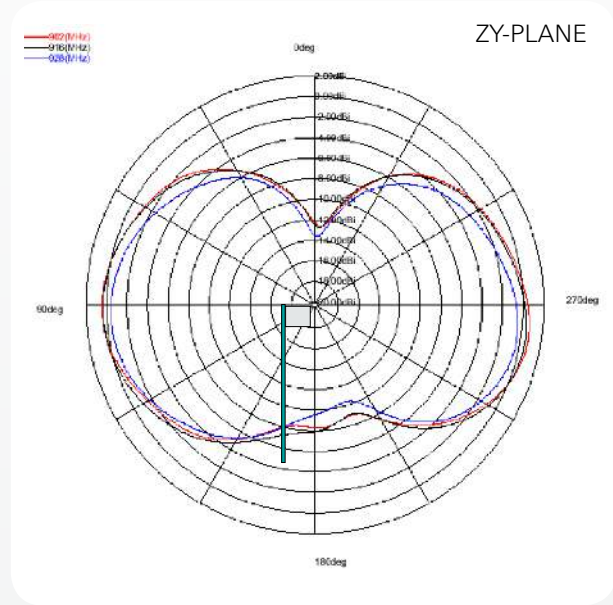
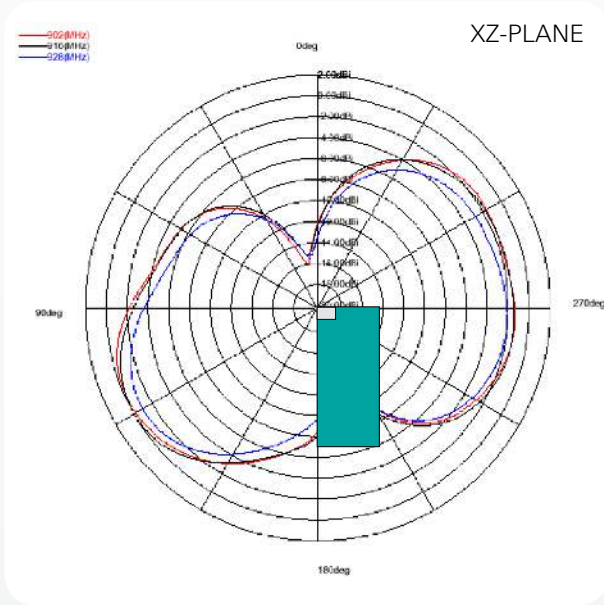
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Typical Free space Radiation Patterns



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