

ISM 900MHz Helical SMD Antenna

Pulse Part Number CW3112



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

Electrical specifications @ +25 ° C

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

Typical performance (testboard size 100x40 mm, PWB ground clearance area 6.00 x11.00 mm)

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

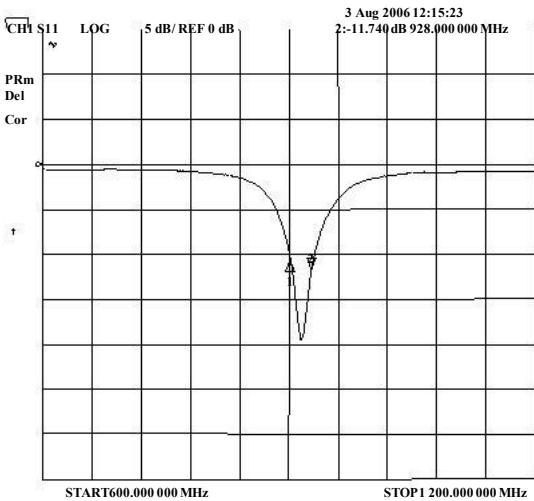
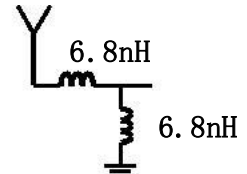
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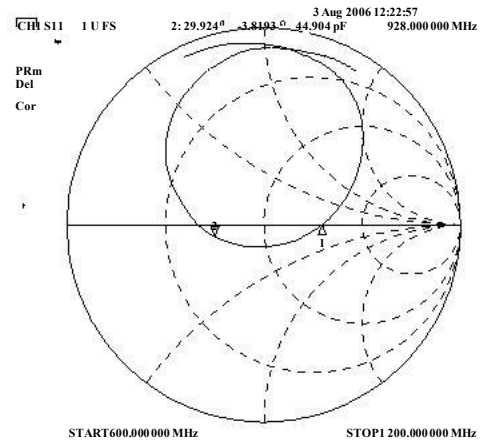
Typical Electrical Characteristics (T=25 ° C)

Measured on the 100x40mm test board with matching circuit

Typical Return Loss S11/ impedance

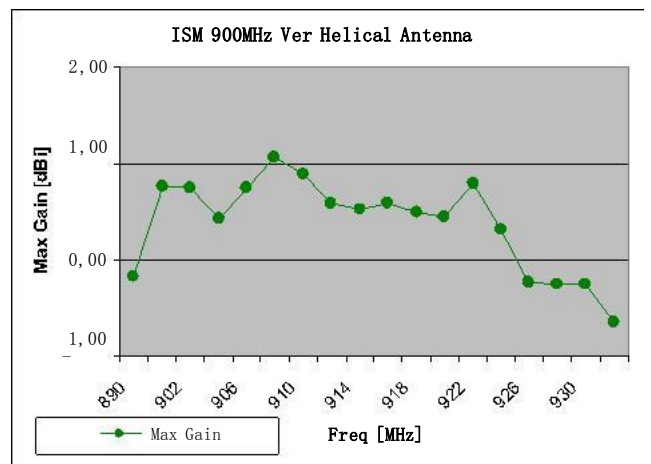
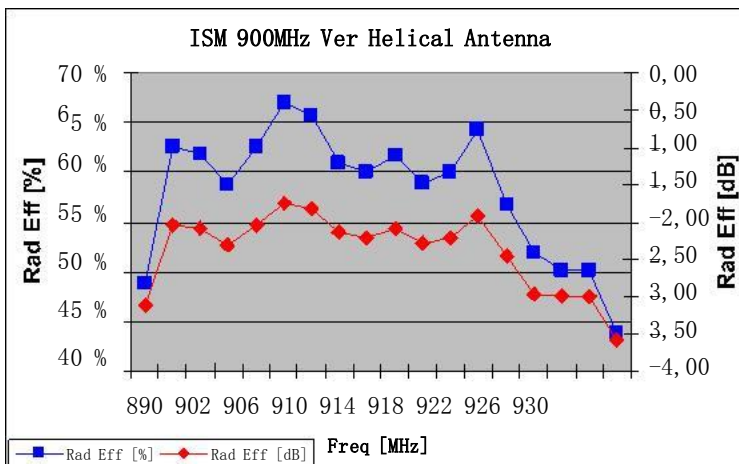


CHI Markers
1: -10.616 dB
2: -11.740 dB



CHI Markers
1: 3.8193 - j4.904 pF

Free space efficiency and maximum gain

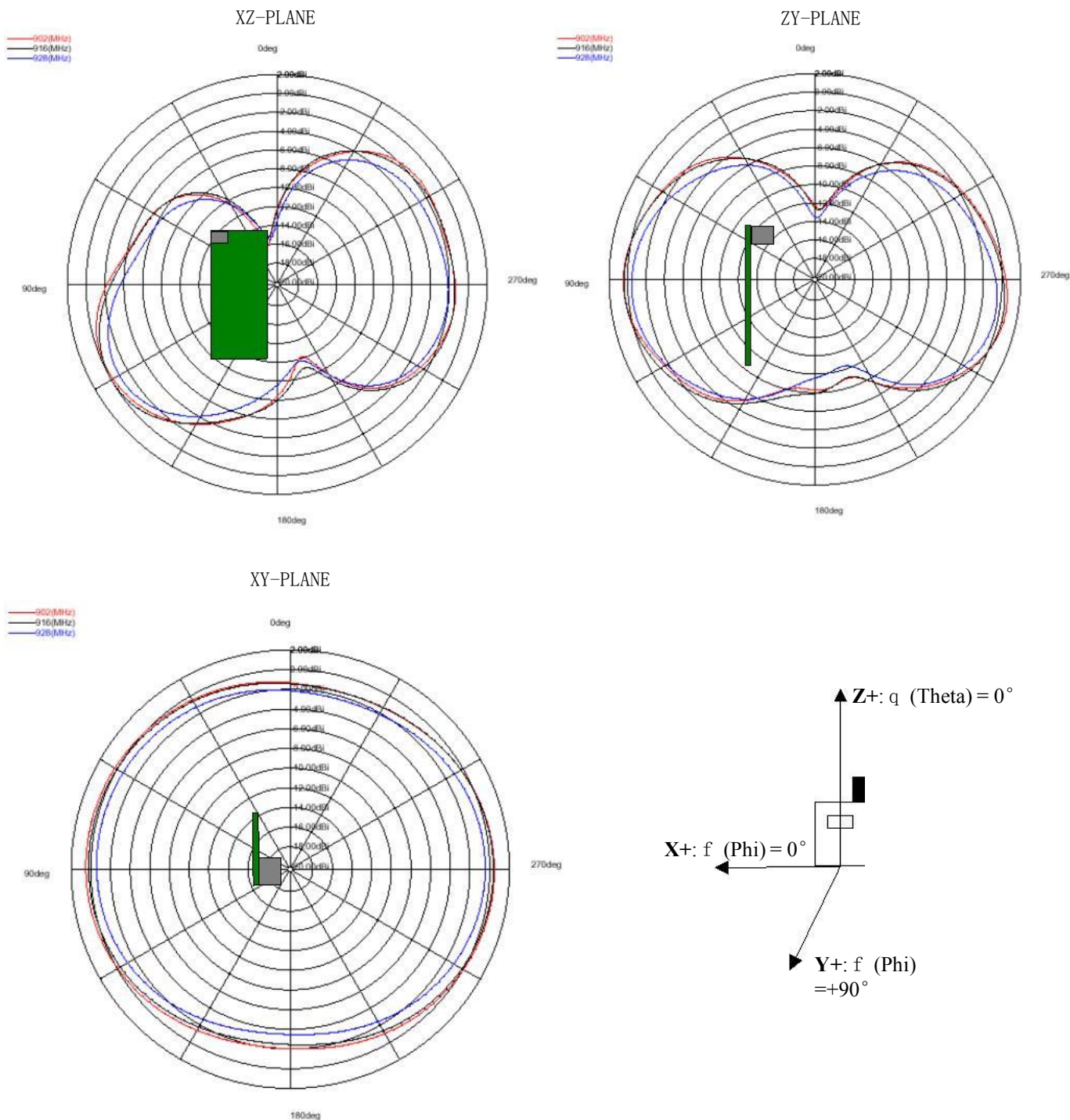


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Typical Free space Radiation Patterns



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