ISM 900MHz Helical SMD-Antenna

Ground cleared under antenna, clearance area 8.00 x 40.00 mm. Pulse Part Number: W3113

Features

- Low profile (2.5mm, embedded to board)
- Compact size W x L x H (12.4 x 8 x 2.5 mm)
- Low weight (400 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 8.00 x 40.00 mm)

Frequency Range [MHz]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [°C]
902 – 928	0.8 (peak) -0.3 (band edges)	66 / -1.8 (peak) 51 / -2.9 (band edges)	-10	50	-40 to +85

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A TECHNITROL COMPANY

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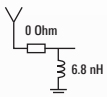
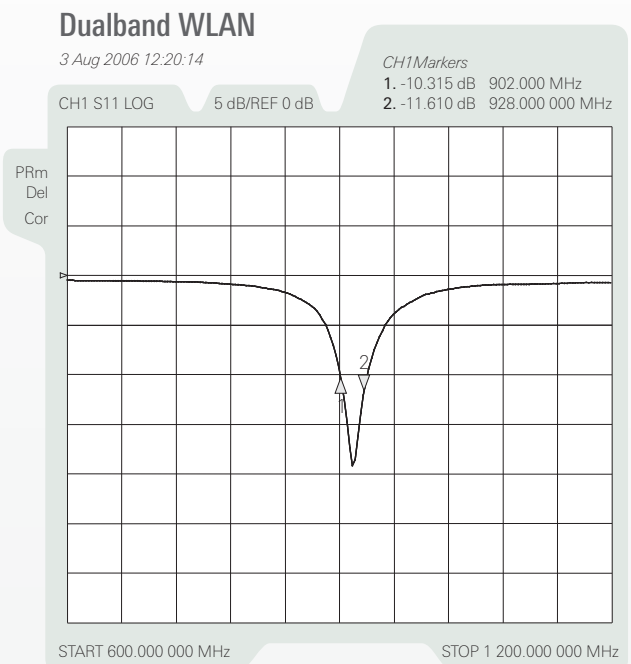
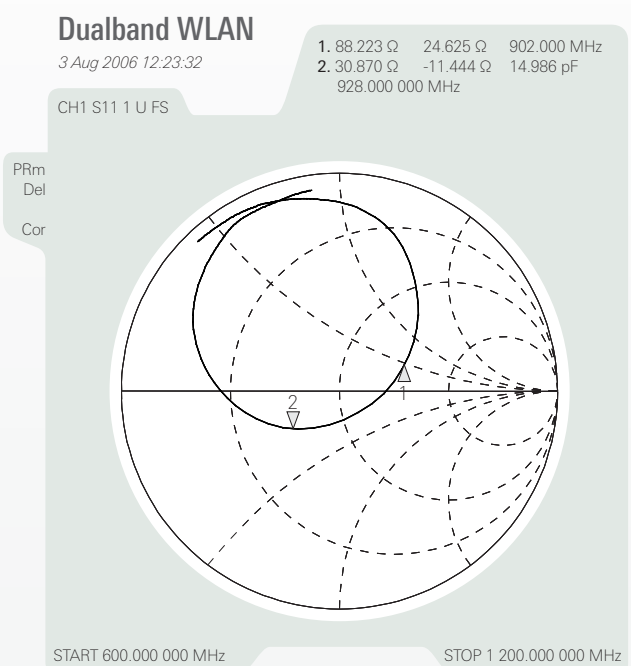
Typical Electrical Characteristics (T=25 °C)

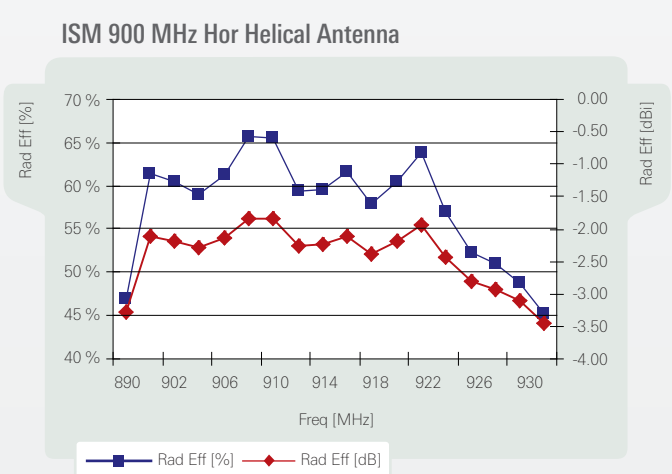
Typical Return Loss S11/ impedance,
measured on the 100 x 40 mm test board with matching circuit

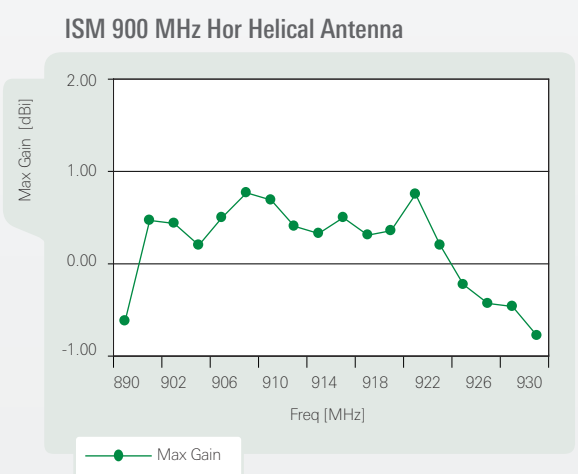






Free space efficiency and maximum gain, PWB ground clearance area 8.00 x 40.00 mm





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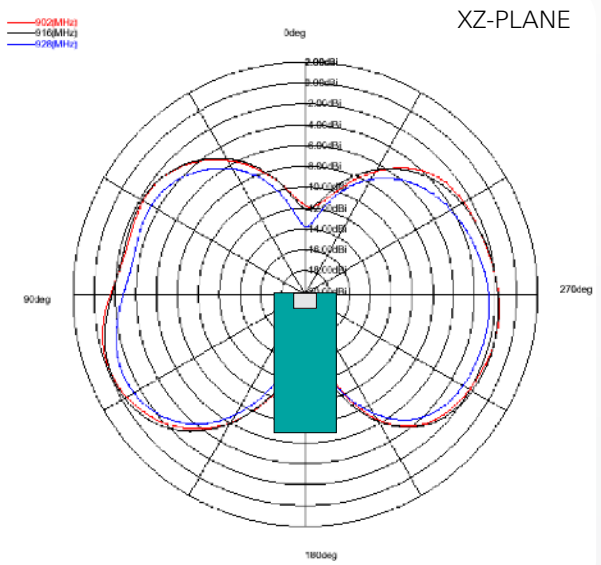
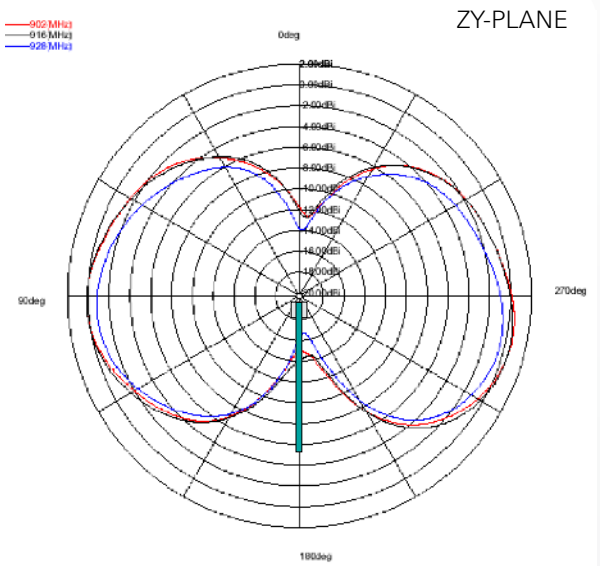
Typical Free space Radiation Patterns

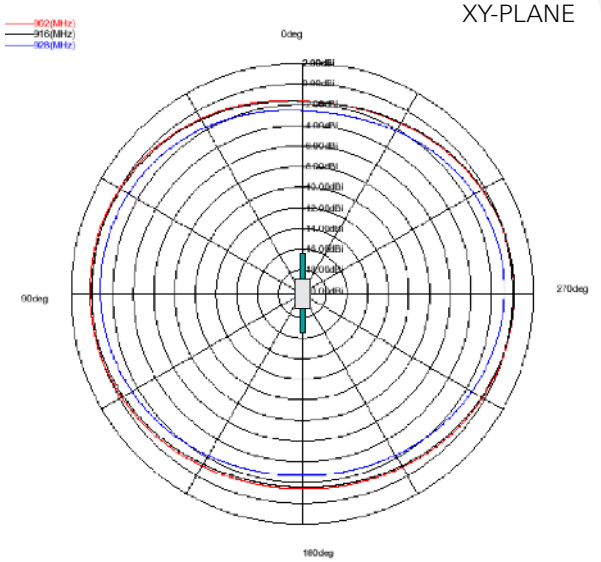
XZ-PLANE

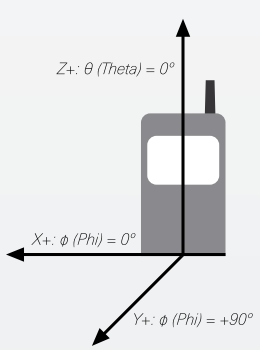


ZY-PLANE



XY-PLANE





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