# 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	Max Gain	Efficiency	Return loss	Impedance	Operating
[MHz]	[dBi]	[%] / [dB]	min. [dB]	[Ω]	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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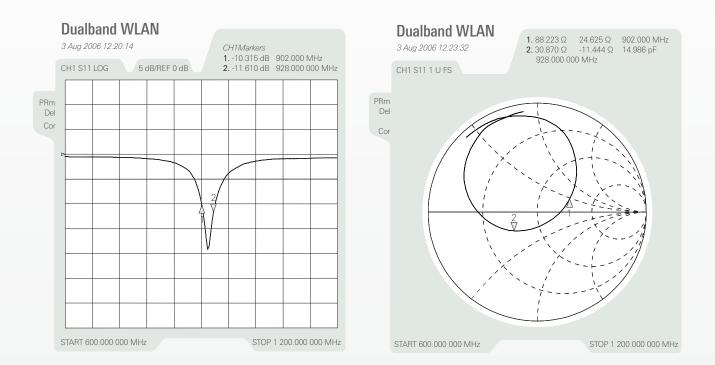
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### Typical Electrical Characteristics (T=25 °C)

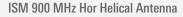
Typical Return Loss S11/ impedance,

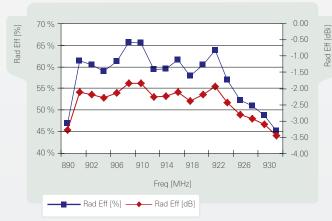
measured on the 100 x 40 mm test board with matching circuit



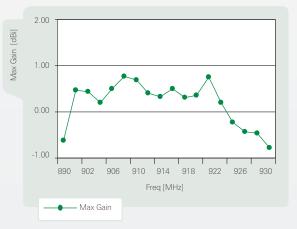
0 0hm ------≩ 6.8 nH

Free space efficiency and maximum gain, PWB ground clearance area  $8.00 \times 40.00 \text{ mm}$ 





ISM 900 MHz Hor Helical Antenna



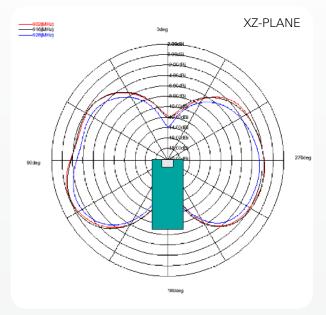
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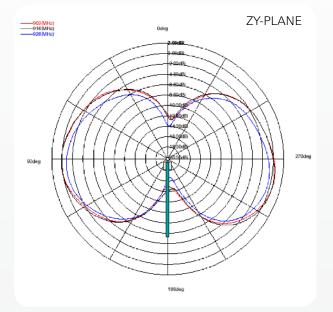
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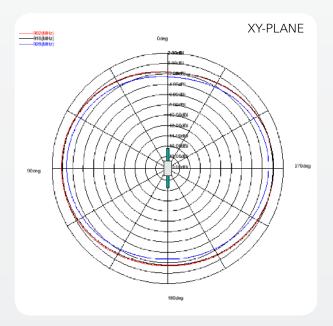
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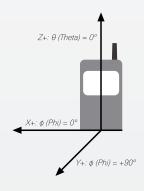
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### **Typical Free space Radiation Patterns**









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### **Mouser Electronics**

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Pulse: <u>W3113</u> W1920G3658