**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)

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<tbody>
<tr>
<td>902 – 928</td>
<td>0.9 (peak) -0.3 (band edges)</td>
<td>67 / -1.7 (peak) 50 / -3 (band edges)</td>
<td>-10</td>
<td>50</td>
<td>-40 to +85</td>
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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
3 Aug 2006 12:15:23

CH1 [Markers
1. -10.637 dB 902.000 MHz
2. -11.740 dB 928.000 MHz

Dualband WLAN

CH1 S11 LOG
6-dBREF 0 dB

PRm Del Cor

START 600.000 000 MHz
STOP 1 200.000 000 MHz

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

ISM 900 MHz Ver Helical Antenna

Rad Eff [%] Rad Eff [dB]

Freq [MHz]

Max Gain [dB]

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Typical Free space Radiation Patterns