



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

Pulse Finland Oy

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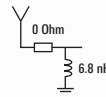


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Typical Electrical Characteristics (T=25 °C)

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



Dualband WLAN

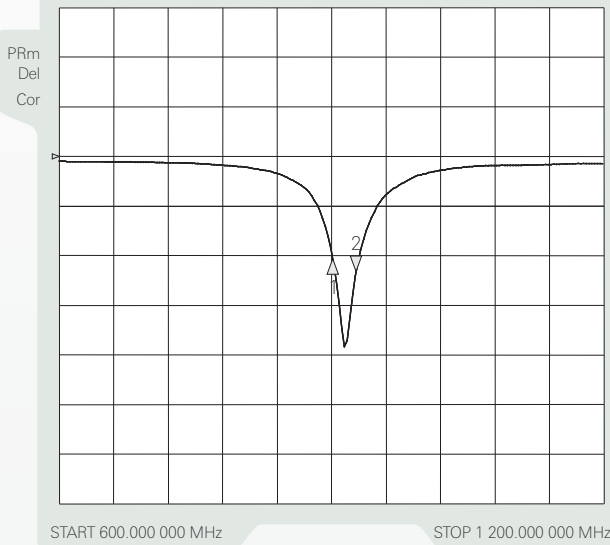
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CH1Markers

- 1. -10.315 dB 902.000 MHz
- 2. -11.610 dB 928.000 000 MHz

CH1 S11 LOG

5 dB/REF 0 dB

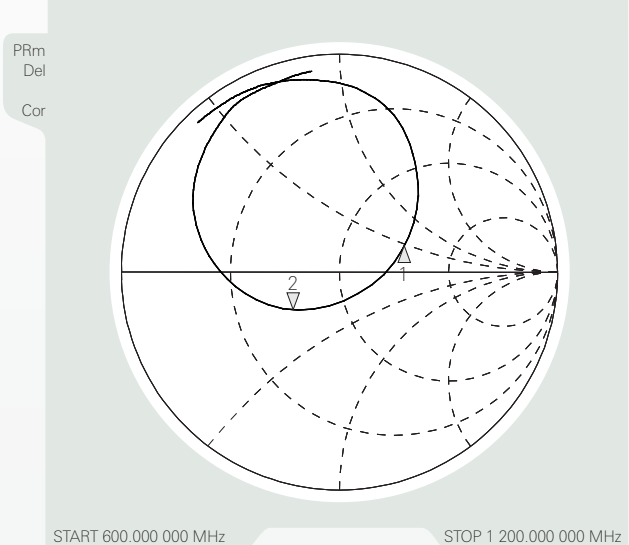


Dualband WLAN

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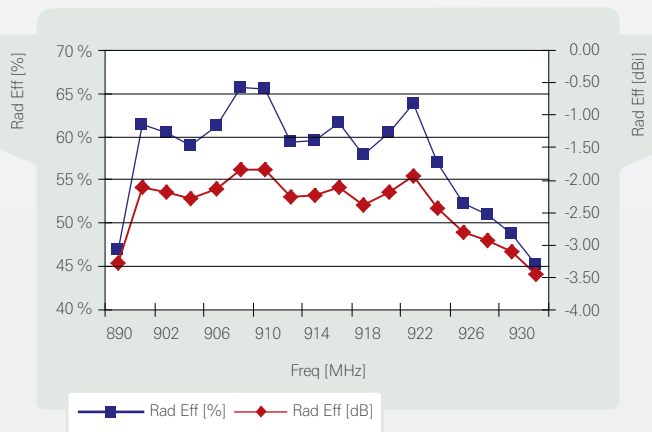
- 1. 88.223 Ω 24.625 Ω 902.000 MHz
- 2. 30.870 Ω -11.444 Ω 14.986 pF 928.000 000 MHz

CH1 S11 1 U FS



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

ISM 900 MHz Hor Helical Antenna



ISM 900 MHz Hor Helical Antenna



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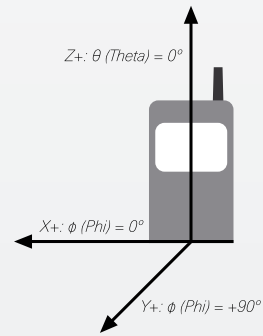
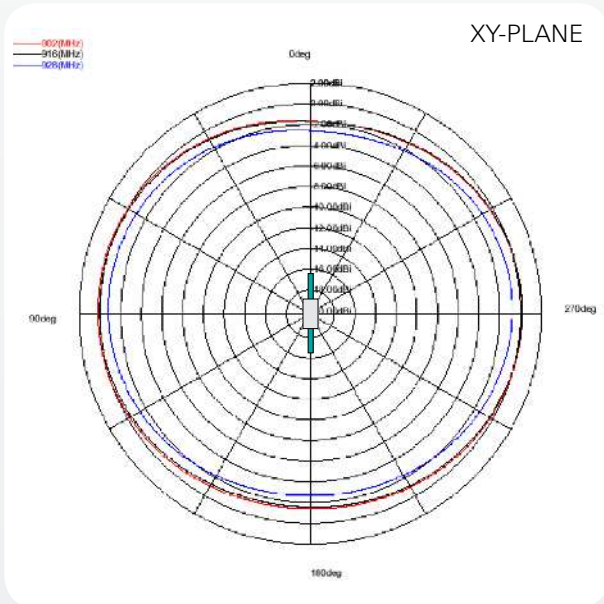
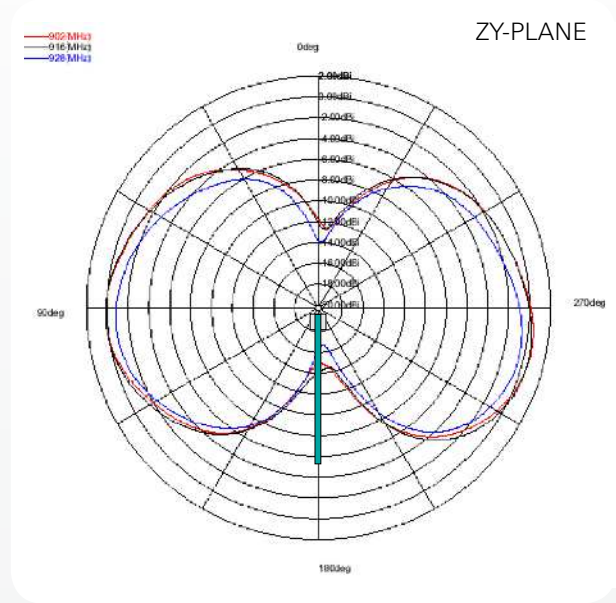
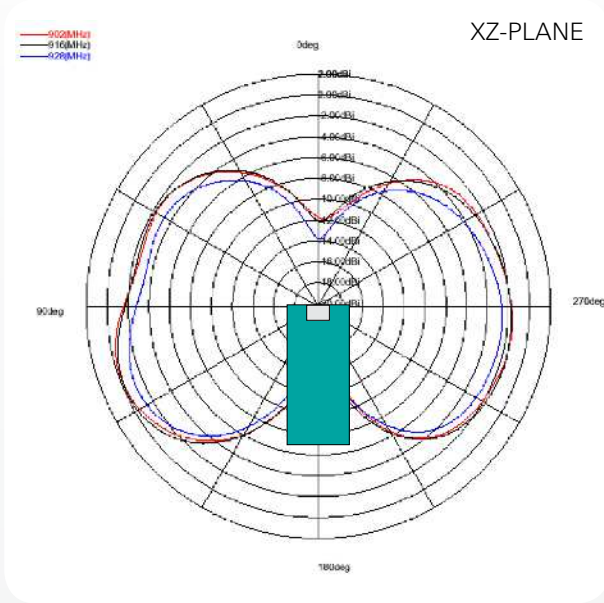
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Typical Free space Radiation Patterns



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