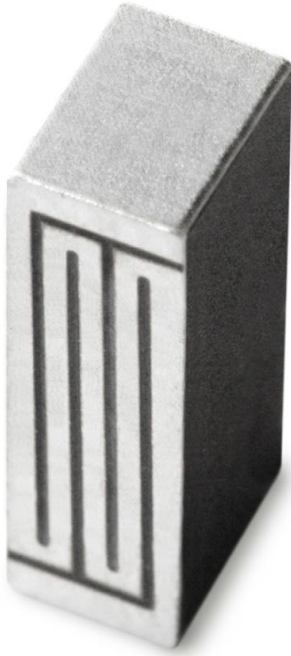


# ISM 900 MHz Ceramic Antenna

Pulse Part Number CW3012



## Features

- Omni directional radiation
- Low profile
- Compact size W x L x H (10 x 3.2 x 4 mm)
- Low weight (600 mg)
- Lead free materials
- Fully SMD compatible
- Lead free soldering compatible
- Tape and reel packing
- RoHS Compliant Product

## Applications

- ISM 900 Band

## Electrical specifications @ +25 ° C

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

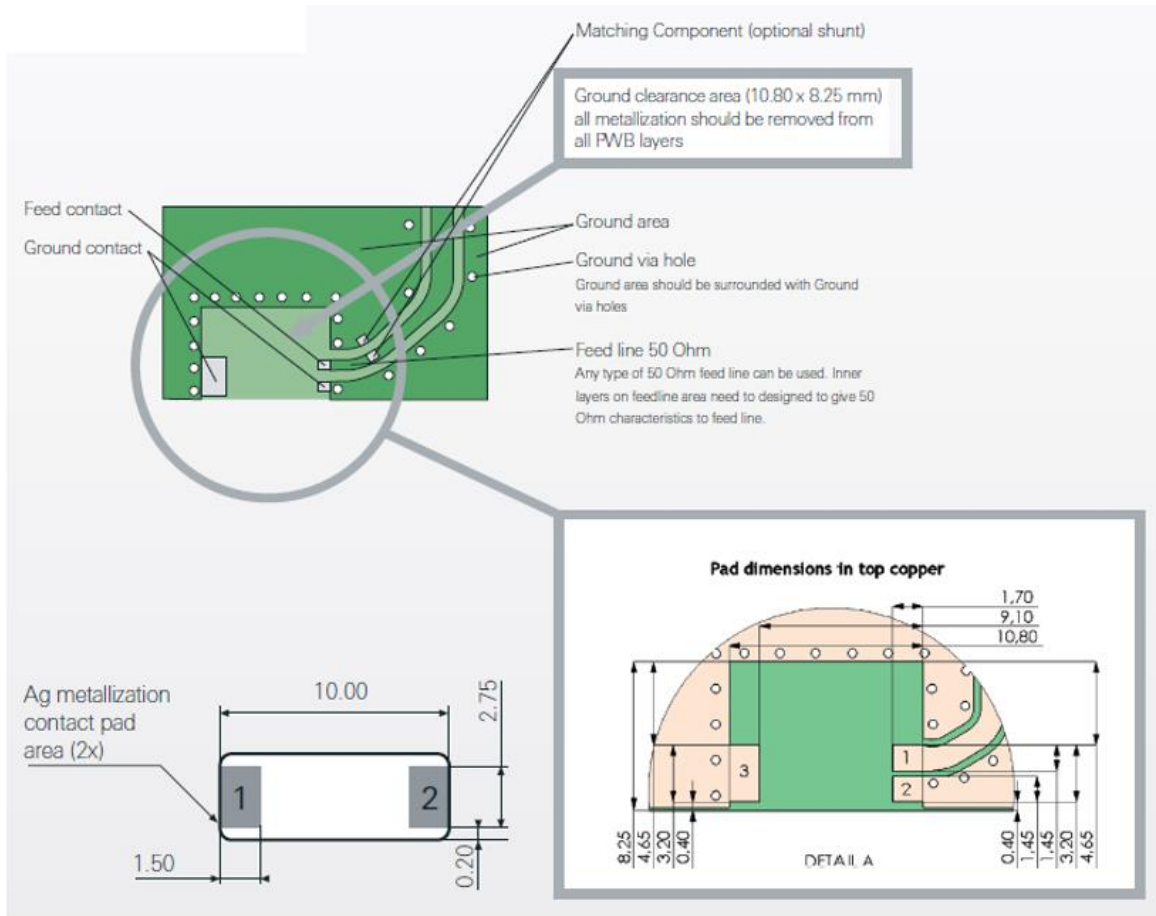
*Typical performance (testboard size 100x37 mm, PWB ground clearance area 10.8 x 8.25 mm)*

Frequency Range [MHz]	Max Gain [dBi]	RHCP Gain [dBic]	Return loss min. [dB]	Efficiency [%]/[dB]	Impedance [ $\Omega$ ]	Operating Temperature [ $^{\circ}$ C]
902 – 928	2(peak) 0.5(band edges)	0.85(Peak) 0.5(band edges)	-6	70 / -1.55(peak) 50/-3(band edges)	50	-40 to +85

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## Terminal Configuration and antenna dimensions



Antenna features

No.	Terminal Name	Terminal Dimensions
1	Feed / GND	1.5 x 2.75 mm
2	Feed / GND	1.5 x 2.75 mm
Antenna is symmetrical. Either of terminals 1 or 2 can be Feed / GND		

PWB features

No.	Terminal Name	Terminal Dimensions
1	Feed	1.7 x 1.45 mm
2	GND	1.7 x 1.45 mm
3	GND	1.7 x 3.20 mm

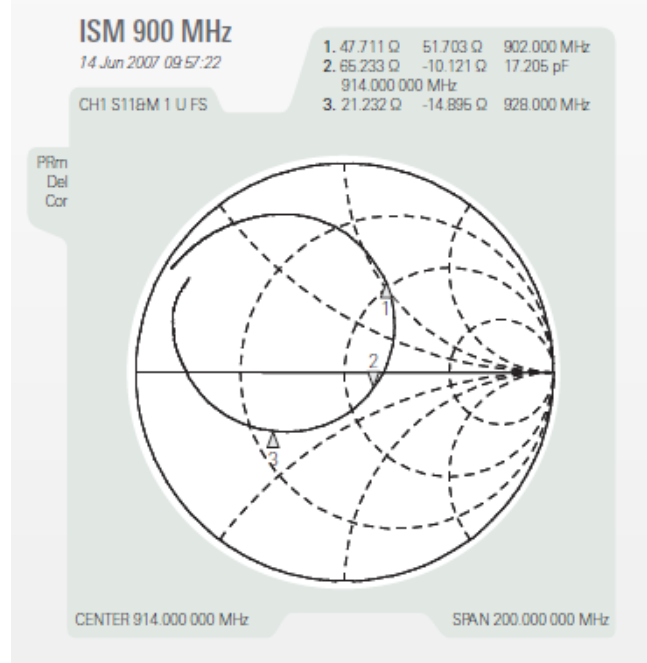
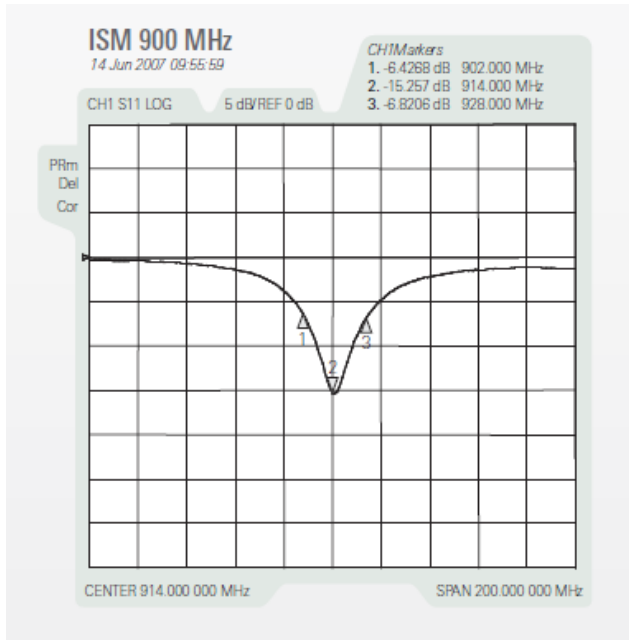
# ISM 900 MHz Ceramic Antenna

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## Typical Electrical Characteristics (T=25 ° C)

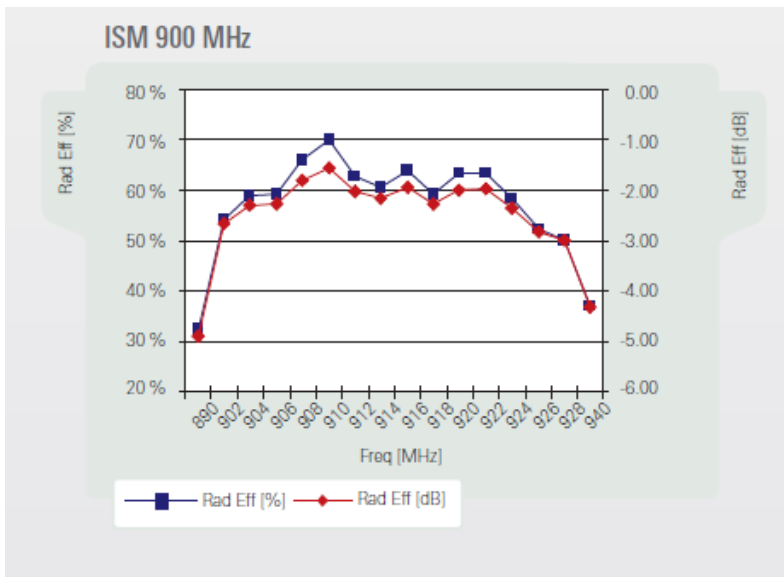
Measured on the 100x37mm test board, ground clearance area 10.8 x 8.25mm

### Typical Return Loss and impedance

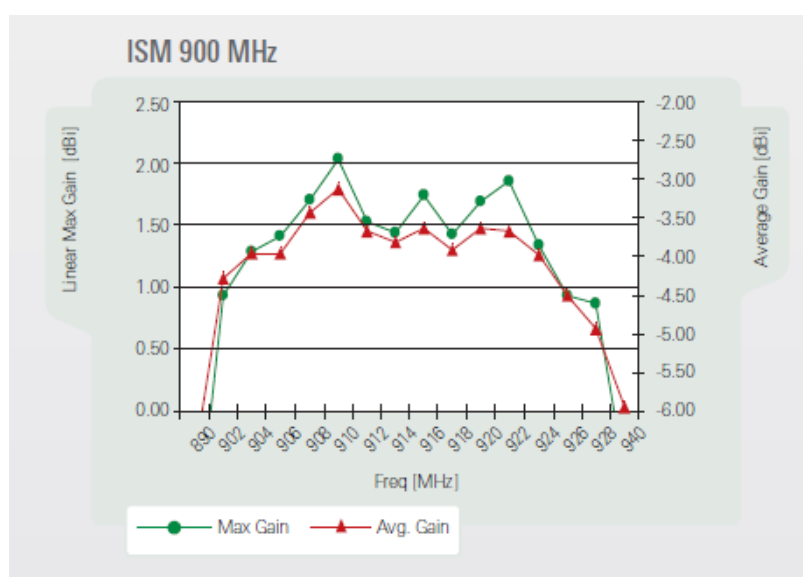


### Free space efficiency and maximum gain

3D Total Efficiency



3D Max/Avg. Gain



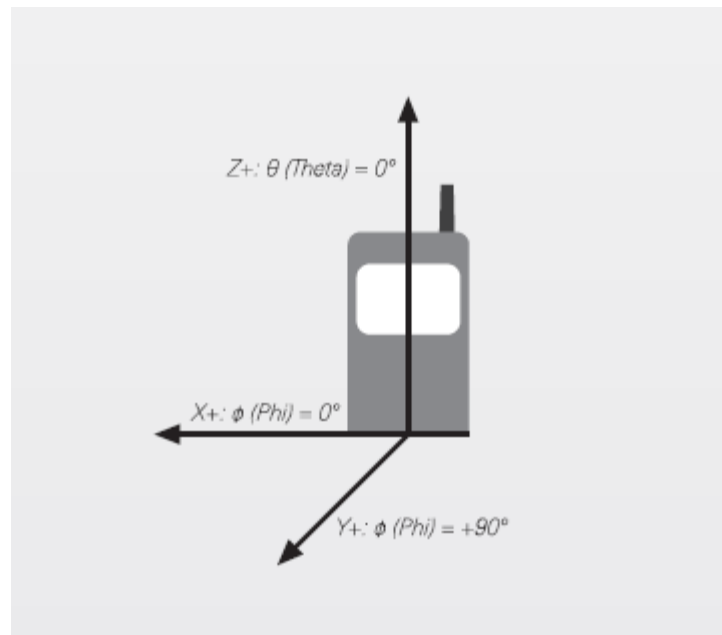
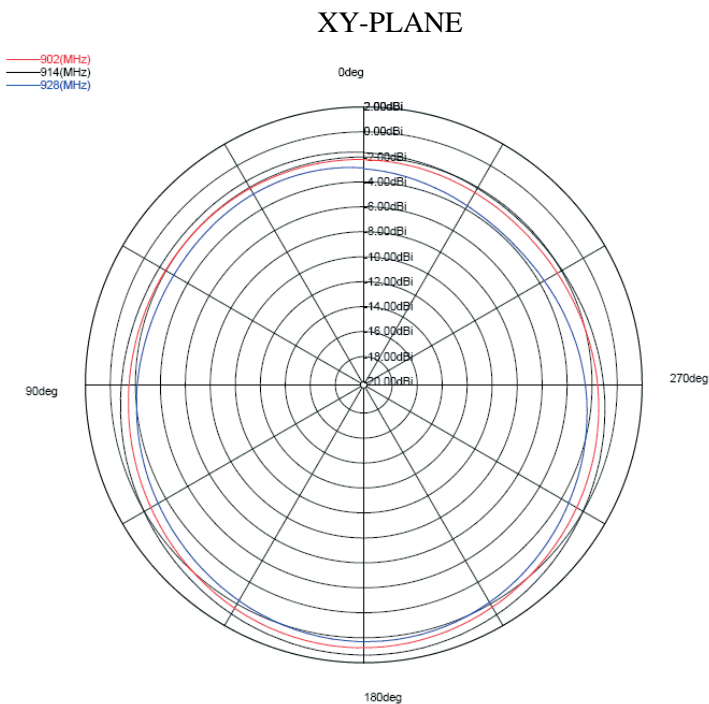
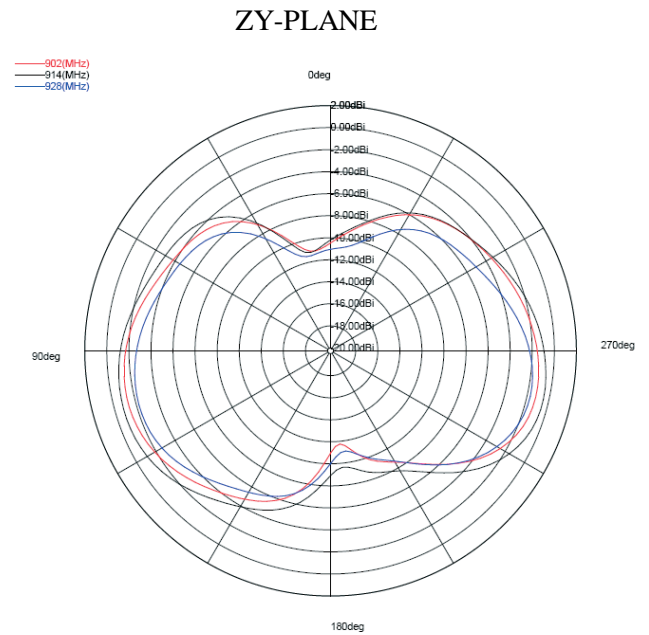
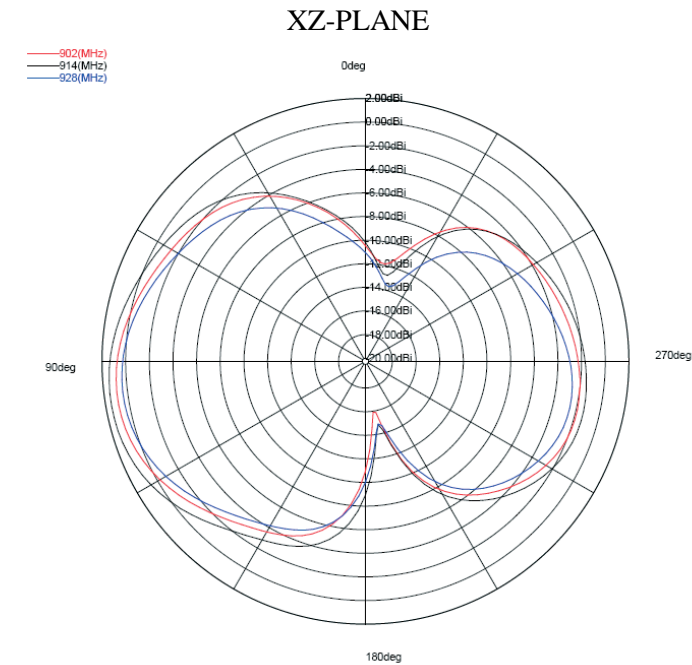
Contact: [mobiledeviceantenna.sales@pulseelectronics.com](mailto:mobiledeviceantenna.sales@pulseelectronics.com)



# ISM 900 MHz Ceramic Antenna

Pulse Part Number CW3012

## Typical Free space Radiation Patterns



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