

Penta Band Right Angle Stubby Antenna

Pulse Part Numbers: W1900 / W1902



Features

- Small form factor
- Antenna size W x L x H (18.4 x 8.0 x 49.5mm)
- Lead free materials
- RoHS Compliant Product
- Connector Type: SMA

Applications

- Penta band EU/US GSM/WCDMA
- Frequency range: 850 / 900 / 1800 / 1900/ 2100 MHz
- M2M Applications

Part Numbers:

P/N	Connector
W1900	SMA(Male)
W1902	RP-SMA(Male)

Electrical specifications @ +25 °C

Note: Electrical characteristics depend on device mechanics.

W1900 & W1902 Typical free space performance, measured in test unit mechanics (position 1.)

Frequency [MHz]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [°C]
824 - 960	1.0 (peak) -0.5 (min)	65 / -1.8 (peak) 50 / -3.0 (min)	-4	50	-40 to +85
1710 - 1990	2.0 (peak) 0.5 (min)	65 / -1.8 (peak) 50 / -3.0 (min)	-6		
1920 - 2170	2.5 (peak) 2.0 (min)	65 / -1.8 (peak) 50 / -3.0 (min)	-6		

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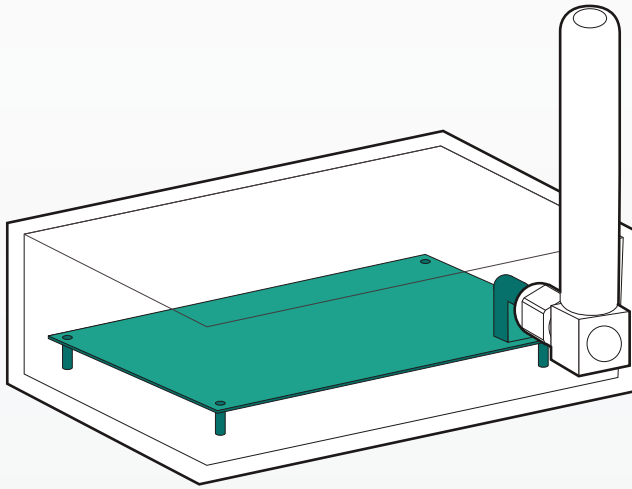
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Test Unit and Antenna Mounting Position 1



Ground Plane Size: 70mm(L) x 50mm(W) x 1mm(T)

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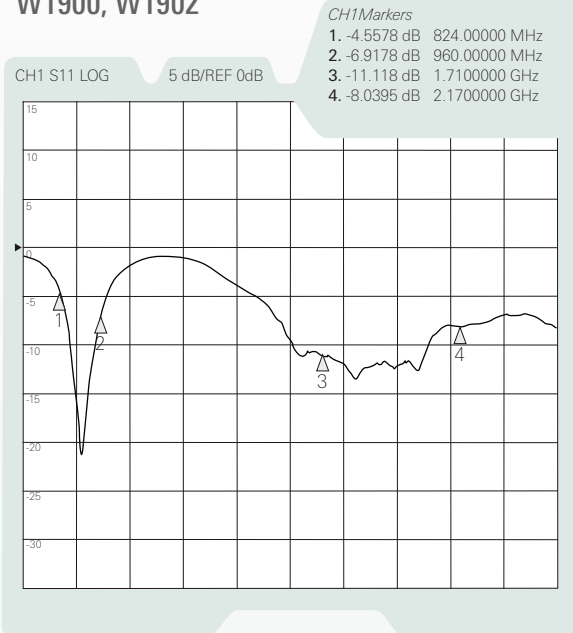
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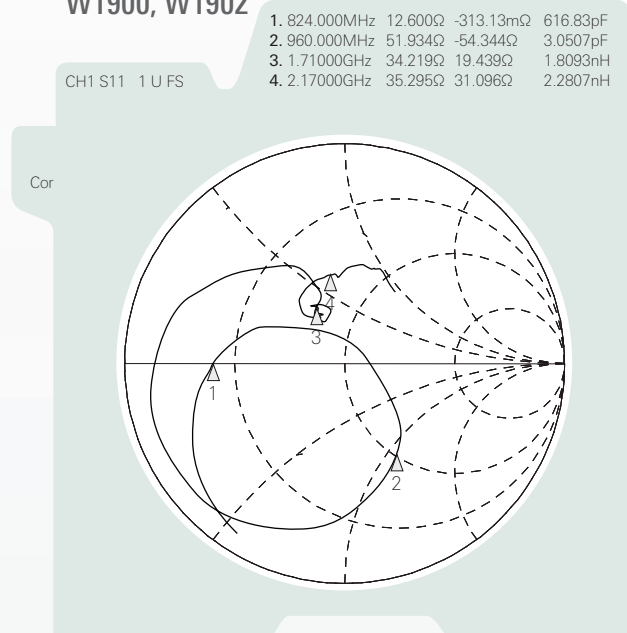
Typical Electrical Characteristics (T=25 °C)

Typical free space performance, measured in test unit mechanics with 150mm feed cable (position1.)

W1900, W1902

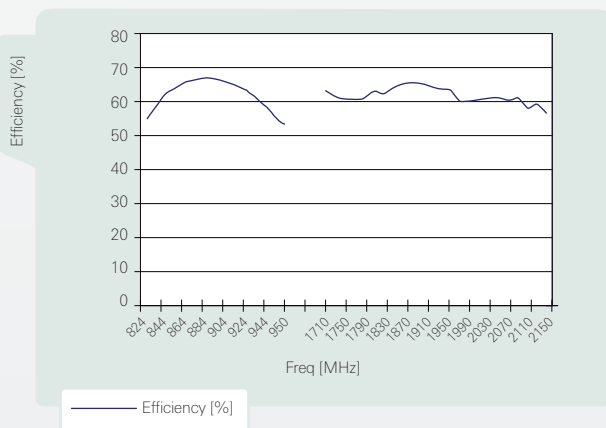


W1900, W1902

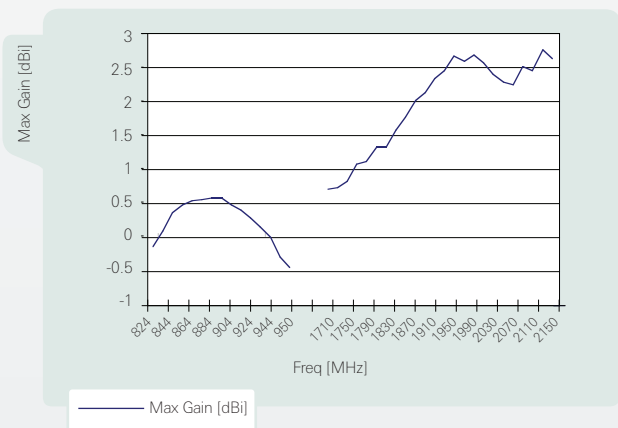


Free Space Efficiency and Maximum Gain

W1900, W1902 Efficiency



W1900, W1902 Max Gain



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Typical Free space Radiation Patterns

Patterns measured in test unit mechanics (position1.)

