



**Explanation of Part Number**

WPANT      MP      A      P      07      A  
 (1)          (2)      (3)      (4)      (5)      (6)

- (1) **Product Series**  
Antenna
- (2) **Product Type**  
MP: Monopole
- (3) **Radome Style**  
A: 50.5mm length
- (4) **Frequency Code**  
P: GSM850/GSM900/DCS/PCS/UMTS(Eu)
- (5) **Revision**  
A



**Application**

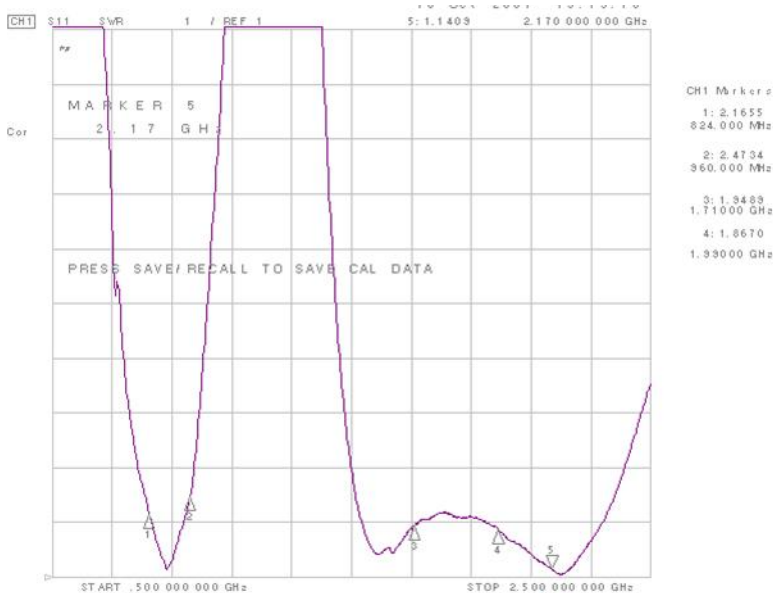
This Penta-band monopole antenna is an ideal solution for wireless modems and devices operating in the cellular frequency bands. Actual antenna performance in the application is dependent on the device ground plane configuration. Please contact [sales@wp-wireless.com](mailto:sales@wp-wireless.com) with your specific application requirements.

**Electrical Properties**

Item	Property
Frequency Range	824~960MHz/1.71~2.17GHz
Nominal Impedance	50Ω
VSWR (referenced to 50Ω) [Max]	2.8
Peak Gain [Typ.]	0.5dBi
Polarization	Linear
Radiation Pattern	Near omnidirectional in the horizontal plane
Admitted Power	1W



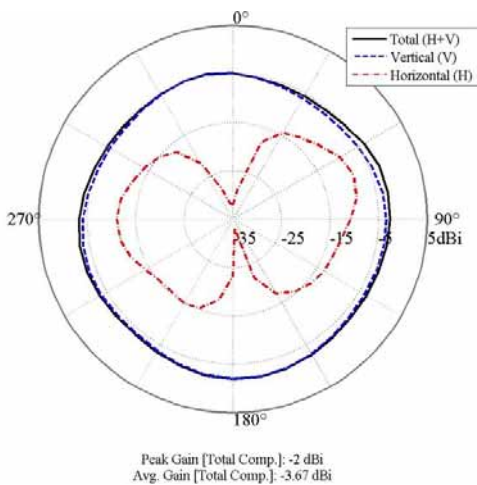
**Typical VSWR (when measured on WPI's standard test fixture WPITF002A\*)**



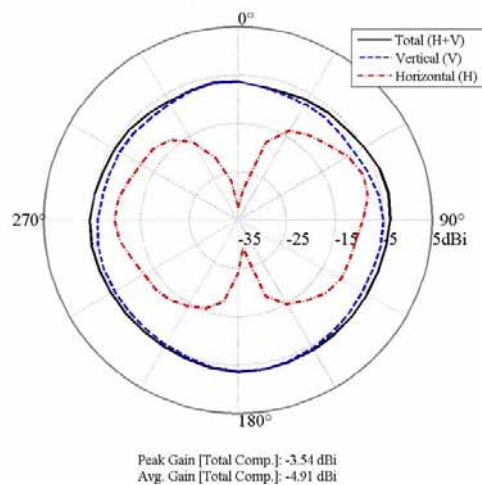
\* more details about WPI's standard test fixture is available upon request

**Typical H-plane Gain Patterns (when measured on WPI's standard test fixture WPITF002A\*)**

GSM850 ( $f_c = 859\text{MHz}$ )

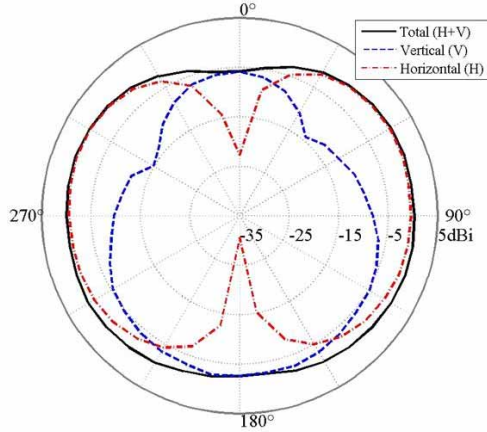


GSM900 ( $f_c = 920\text{MHz}$ )



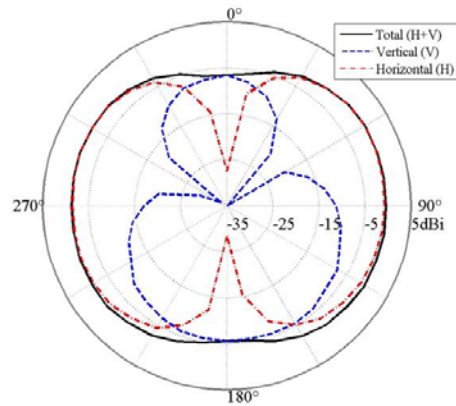


DCS ( $f_c = 1795\text{MHz}$ )



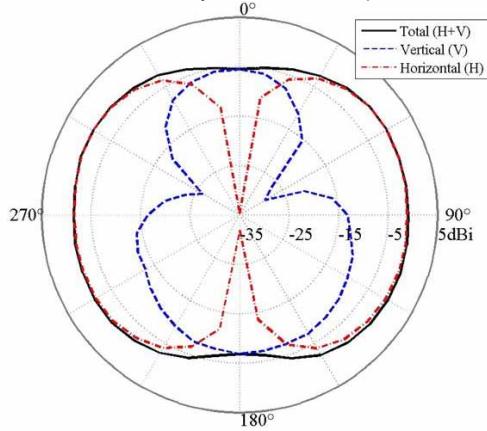
Peak Gain [Total Comp.]: 0.474 dBi  
 Avg. Gain [Total Comp.]: -0.832 dBi

PCS ( $f_c = 1920\text{MHz}$ )



Peak Gain [Total Comp.]: -0.332 dBi  
 Avg. Gain [Total Comp.]: -1.97 dBi

UMTS ( $f_c = 2045\text{MHz}$ )



Peak Gain [Total Comp.]: -0.518 dBi  
 Avg. Gain [Total Comp.]: -1.99 dBi

\* more details about WPI's standard test fixture is available upon request

## Mechanical Properties

Item	Property
Radome Color	Black
Radome Material	TPU
Connector	RA-SMA

Operation Temperature: -20~+65°C  
 Storage Temperature: -20~+65°C



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**PIONEERING TECHNOLOGY**  
Enabling Your First to Market Vision

WPANTMPAP07A

**Penta-Band Monopole Antenna**

## Environmental Properties

RoHS Compliant

## Physical Dimensions

