



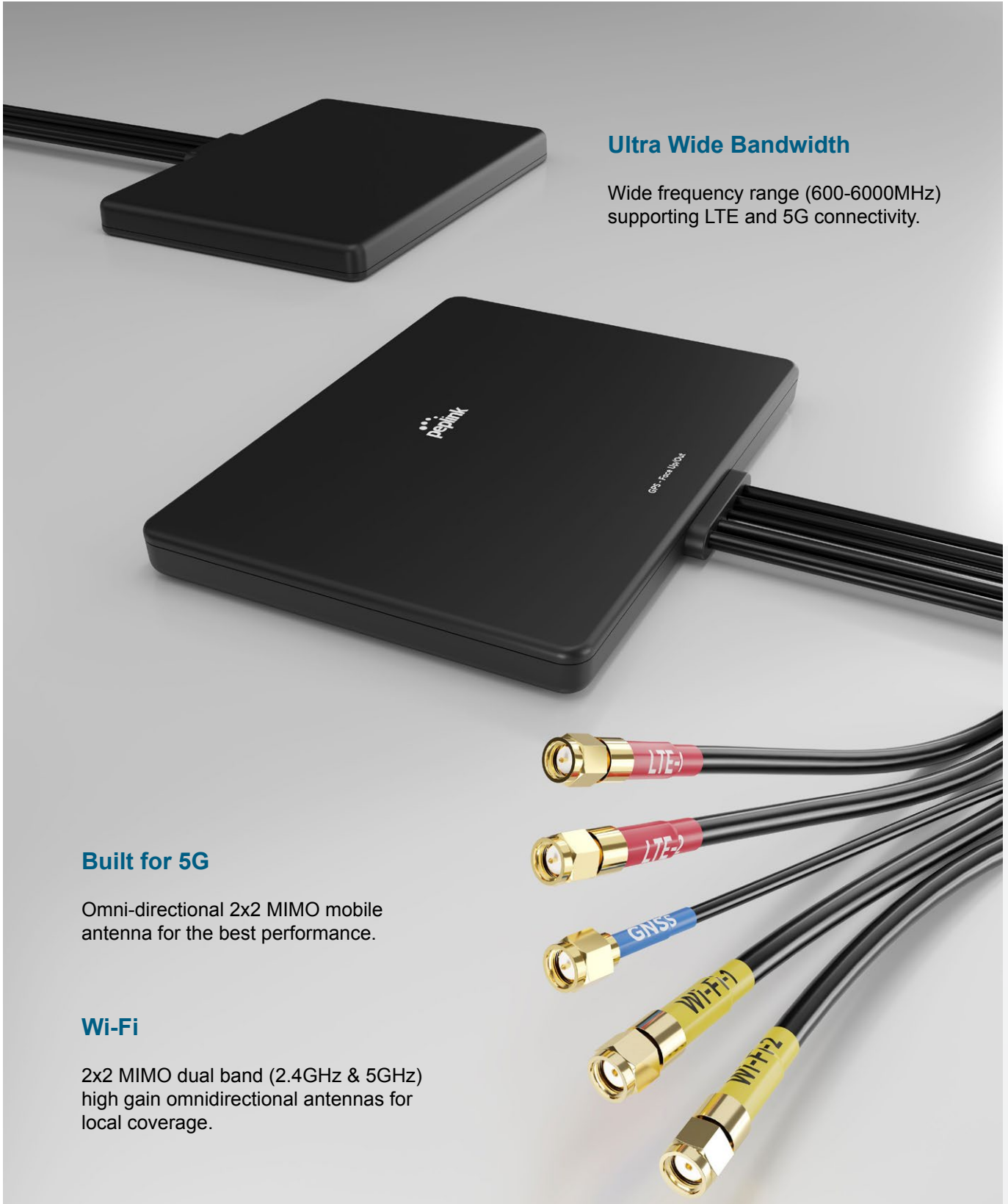
# Slim 22G

## Applications

- Recreational Vehicles
- Transportation Connectivity
- Home / Office



**TAA**  
COMPLIANT



### Ultra Wide Bandwidth

Wide frequency range (600-6000MHz) supporting LTE and 5G connectivity.

### Built for 5G

Omni-directional 2x2 MIMO mobile antenna for the best performance.

### Wi-Fi

2x2 MIMO dual band (2.4GHz & 5GHz) high gain omnidirectional antennas for local coverage.



### Low Profile Design

High performance in a small, durable housing.

### Easy Installation

Can be mounted on a window or wall or hidden under a vehicle dashboard.



## Specifications

### Cellular

- **Antenna Elements:**  
2 elements
- **Peak Gain & Frequencies:**  
4.1dBi: 617-960MHz  
4.3dBi: 1710-2700MHz  
6.0dBi: 3400-4200MHz  
7.5dBi: 5000-6000MHz
- **VSWR:**  
< 2.5 over 90% of the band
- **Feed Power Handling:**  
10W
- **Input Impedance:**  
50  $\Omega$
- **Polarisation:**  
Linear

### GPS

- **Frequency Range:**  
1561-1602 MHz
- **Peak Gain:**  
0.5dBi@1575MHz  
1.6dBi@1602MHz
- **VSWR:**  
< 2.0
- **Output Return Loss:**  
10dB max
- **Gain: LNA:**  
28  $\pm$ 3dB
- **Noise Figure:**  
1.5dB max at 3.3V
- **Operating Voltage:**  
3.3V
- **Power Consumption:**  
8.5  $\pm$ 2.5mA at 3.3V

### Wi-Fi

- **Antenna Elements:**  
2 elements
- **Peak Gain & Frequencies:**  
5.5dBi: 2400-2500MHz  
5.7dBi: 5000-6000MHz

- **VSWR:**  
< 2.0
- **Feed Power Handling:**  
10W
- **Input Impedance:**  
50  $\Omega$
- **Polarisation:**  
Linear

### Cable (Cellular / Wi-Fi)

- **Type:**  
CFD-200 (Cellular, Wi-Fi)
- **Loss:**  
0.33 dB/m @ 900 MHz  
0.49 dB/m @ 2000 MHz  
0.55 dB/m @ 2500 MHz  
0.87 dB/m @ 5800 MHz
- **Diameter:**  
0.2" / 5.0mm
- **Jacket:**  
Half matt PVC, UV resistant
- **Termination:**  
SMA male and RP-SMA male

### Cable (GPS)

- **Type:**  
RG-174 (GPS)
- **Loss:**  
3.4 dB/m @ 1000 MHz  
4.9 dB/m @ 1800 MHz
- **Diameter:**  
0.1" / 2.7mm
- **Jacket:**  
Half matt PVC, UV resistant
- **Termination:**  
SMA male

### Mounting

- **Supported Types:**  
Window, wall

### Mechanical

- **Product Dimensions:**  
7.09" x 5.12" x 0.59" /  
180 x 130 x 15mm
- **Packaged Dimensions:**  
9.61" x 3.15" x 9.84" /  
244 x 80 x 250mm
- **Enclosure Material:**  
UV stable PC
- **Color:**  
Black

### Environmental, Compliance

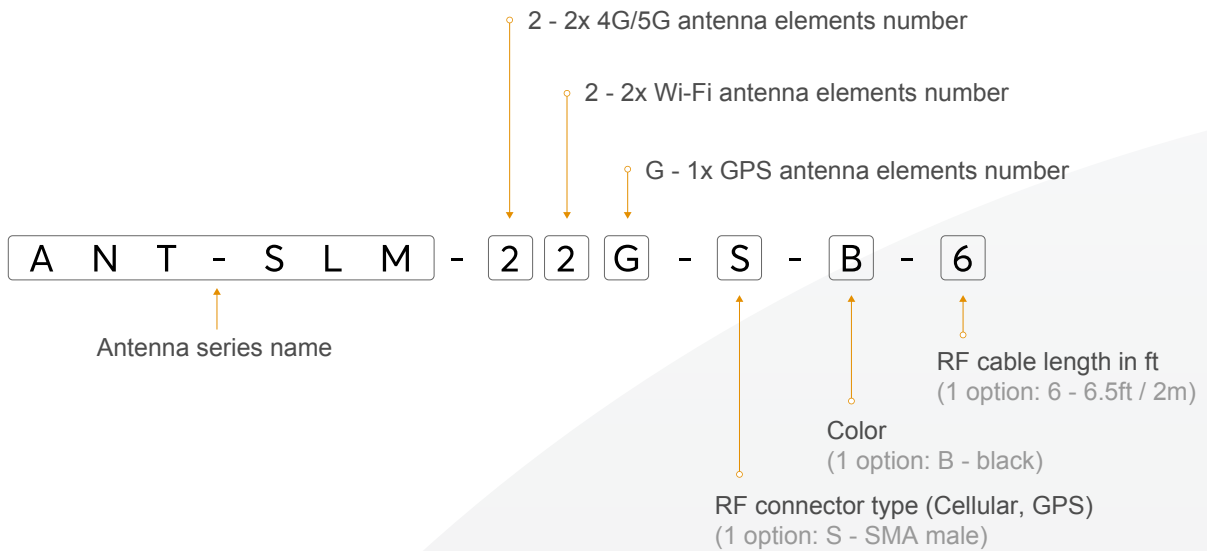
- **IP Rating:**  
IP55
- **Operating Temperature:**  
-40° - 176°F / -40° - 80°C
- **Storage Temperature:**  
-40° - 176°F / -40° - 80°C
- **Compliance:**  
ROHS, REACH, WEEE
- **Enclosure Flammability:**  
UL 94 HB
- **Cable Flammability:**  
UL 758 (VW-1)
- **UV resistant:**  
UL 746C (F1 long-term UV exposure)

### Package Contents

- **Package Contents:**  
Slim 22G  
Velcro strip (hook and loop fastener)  
(4pcs, length 4.7" / 120mm)



## Ordering Information



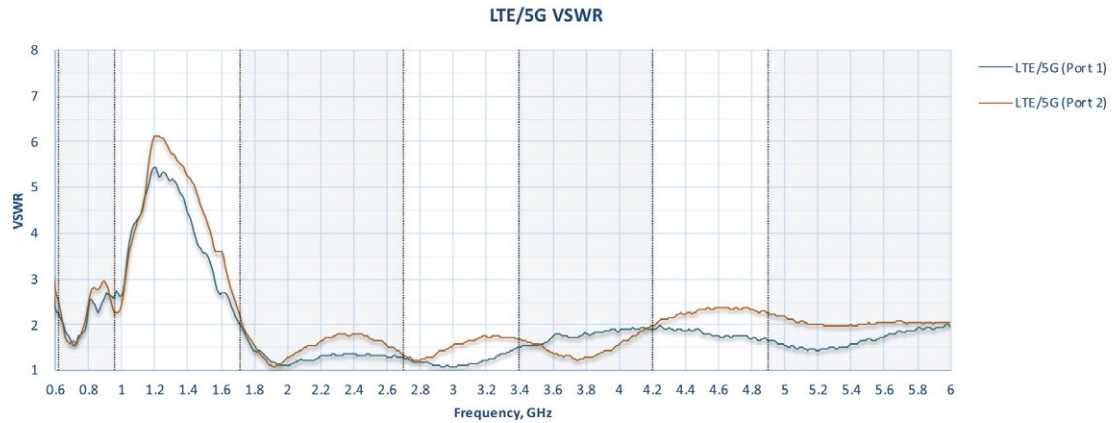
Product Code	Description
ANT-SLM-22G-S-B-6	2x LTE/5G, 2x Wi-Fi, 1x GPS 600-6000MHz, SMA male (Cellular, GPS), RP-SMA male (Wi-Fi), Black, 6.5ft / 2m

## Technical Drawing



## Cellular Antenna Performance

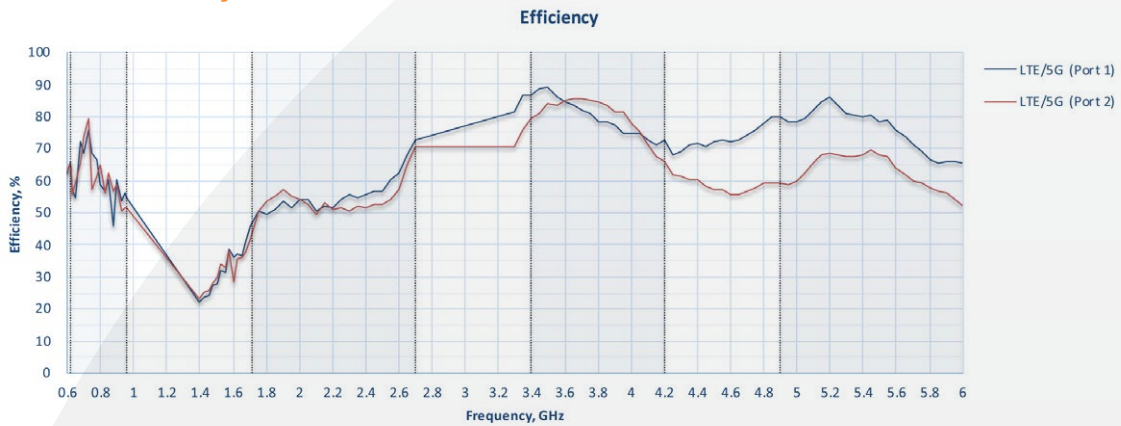
### Cellular Antenna VSWR



### Cellular Antenna Gain

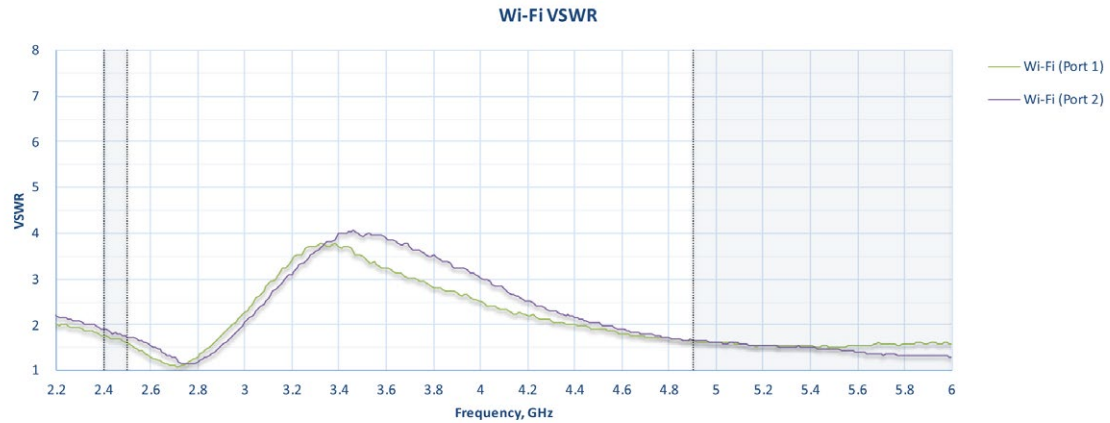


### Cellular Antenna Efficiency

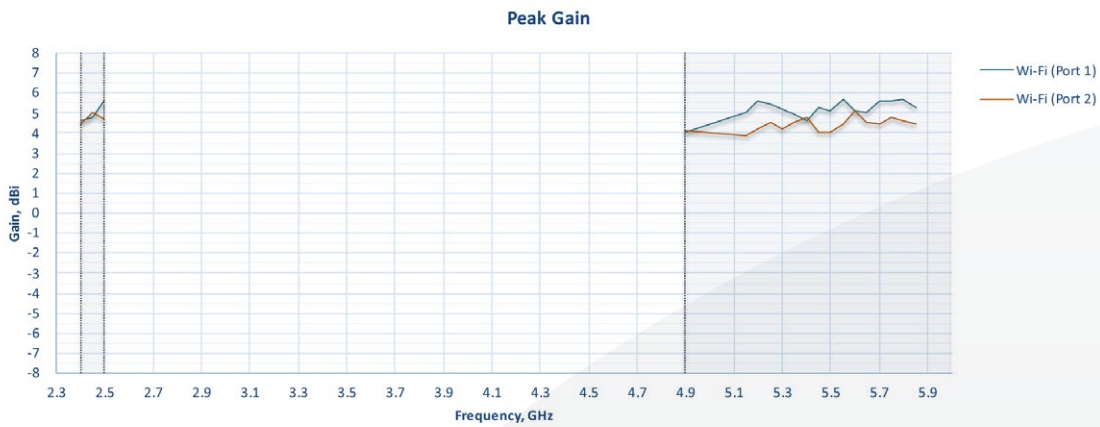


## Wi-Fi Antenna Performance

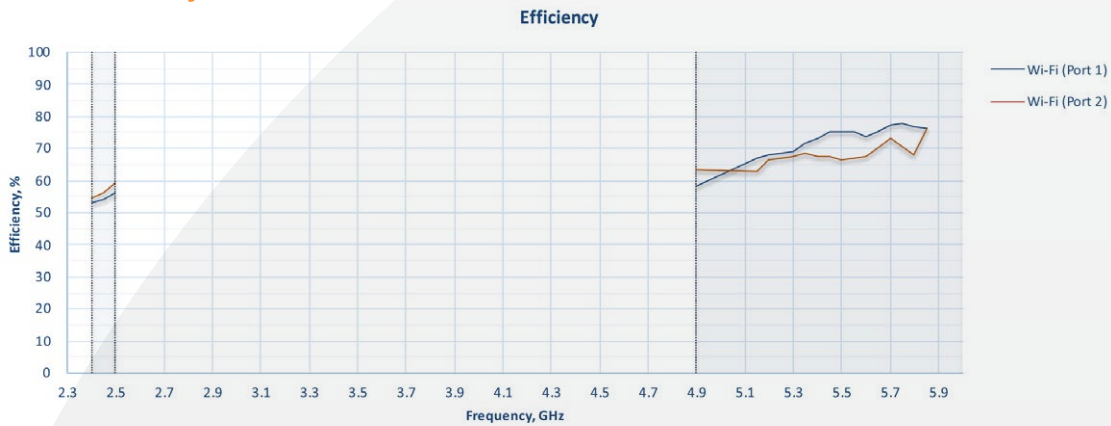
### Wi-Fi Antenna VSWR



### Wi-Fi Antenna Gain

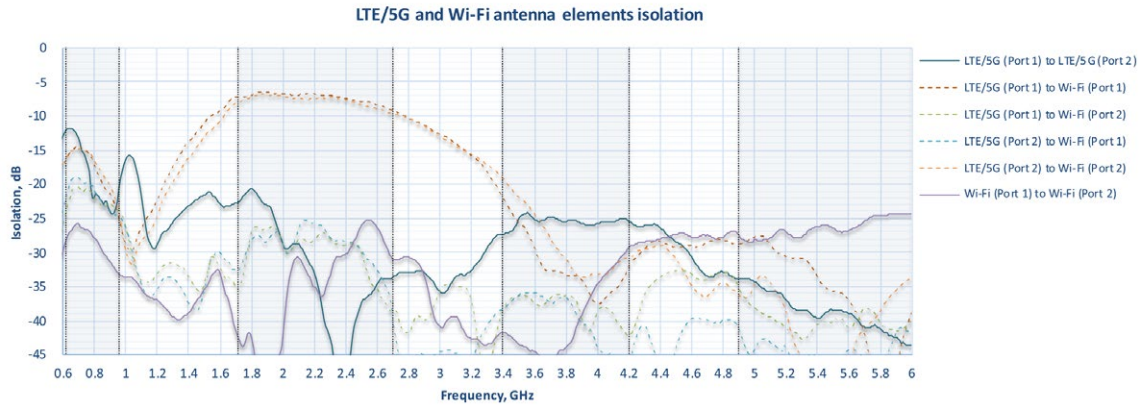


### Wi-Fi Antenna Efficiency



## Cellular & Wi-Fi Antenna Performance

### Cellular & Wi-Fi Antenna Isolation

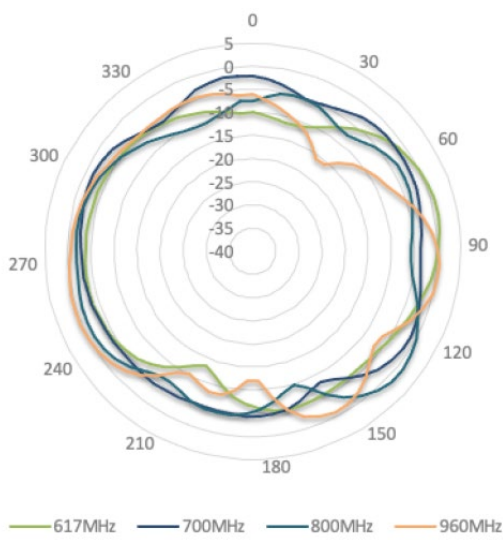




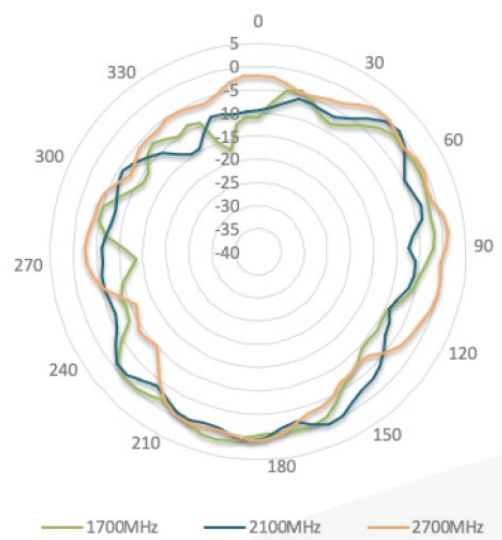
## Radiation Pattern

### LTE Radiation Patterns (Azimuth)

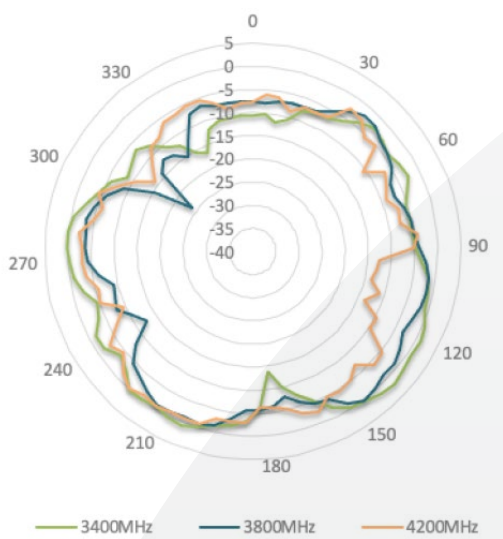
**617-960 MHz**



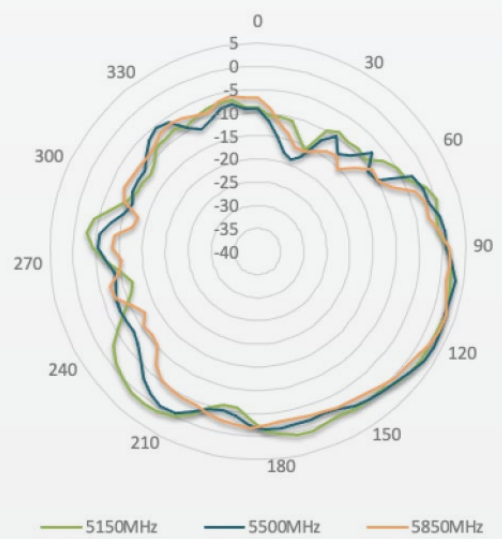
**1700-2700 MHz**



**3400-4200 MHz**



**5150-5850 MHz**

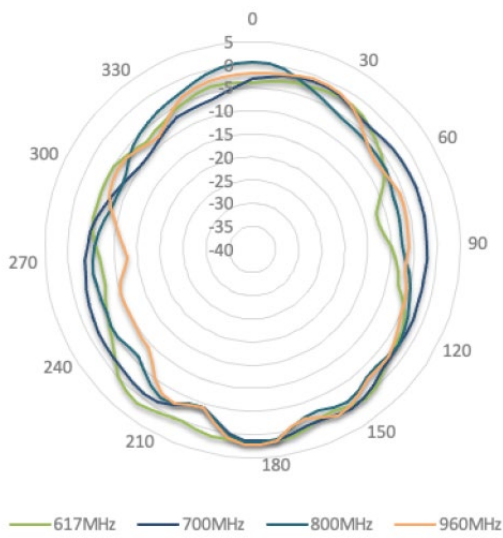




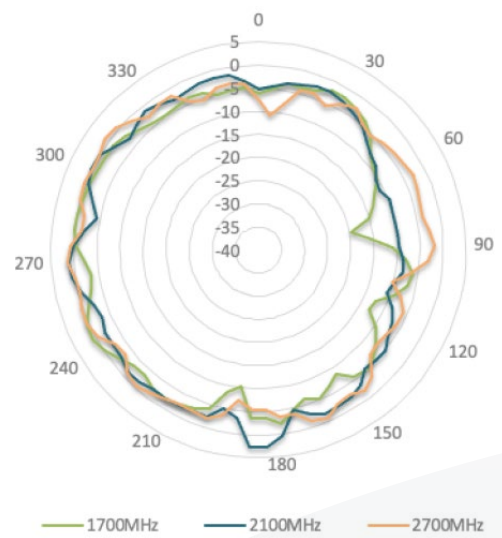
## Radiation Pattern

### LTE Radiation Patterns (Elevation 1)

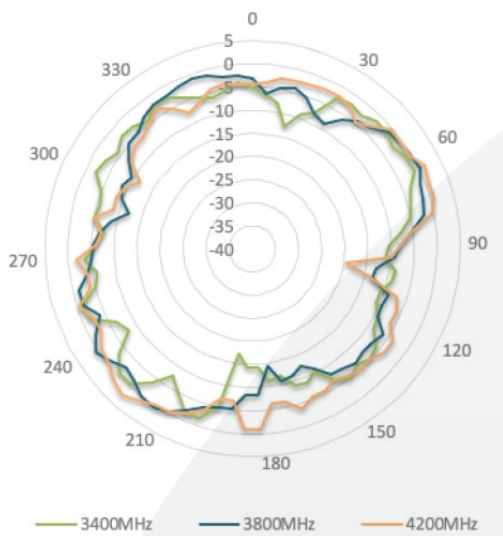
**617-960 MHz**



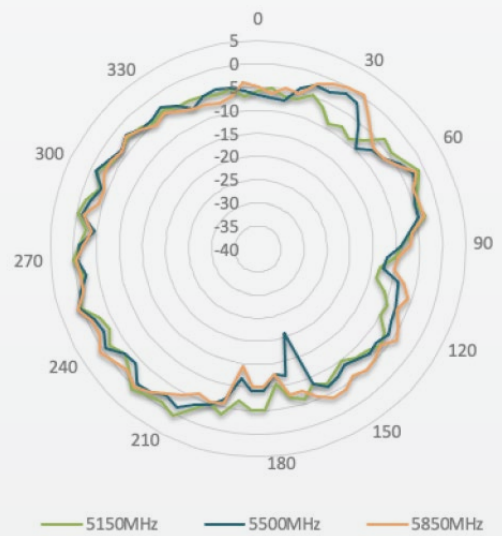
**1700-2700 MHz**



**3400-4200 MHz**



**5150-5850 MHz**

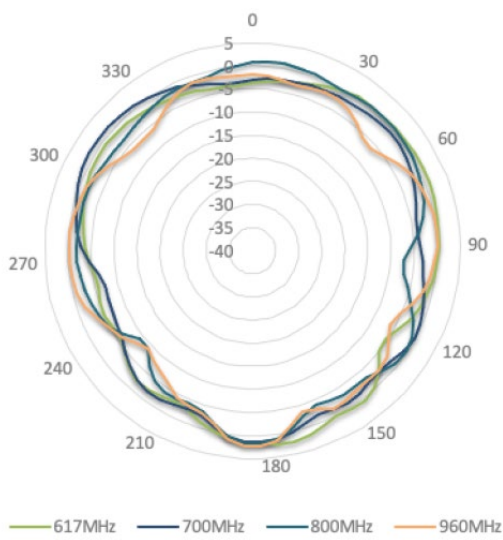




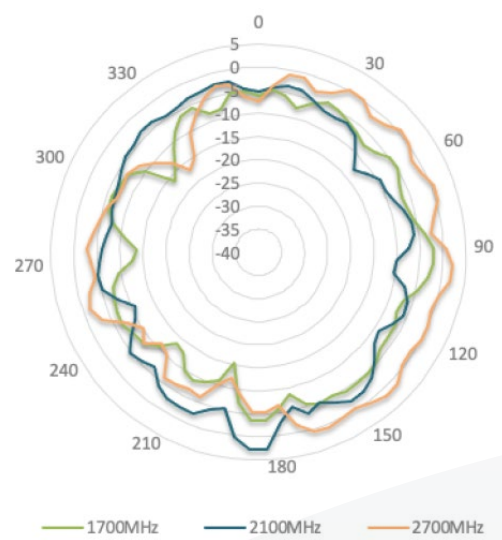
## Radiation Pattern

### LTE Radiation Patterns (Elevation 2)

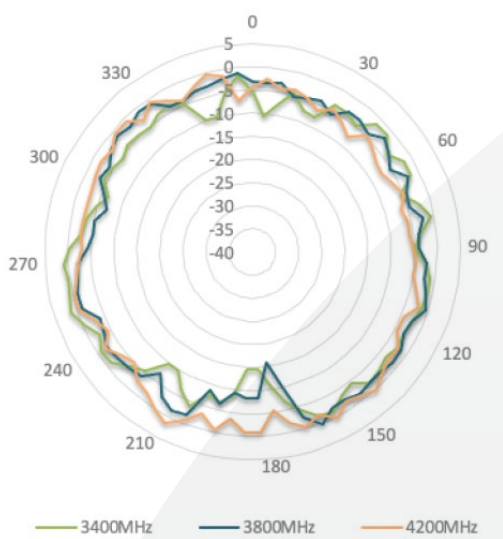
**617-960 MHz**



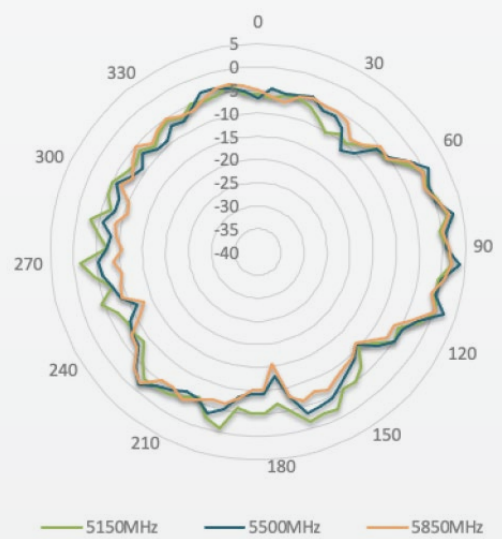
**1700-2700 MHz**



**3400-4200 MHz**



**5150-5850 MHz**

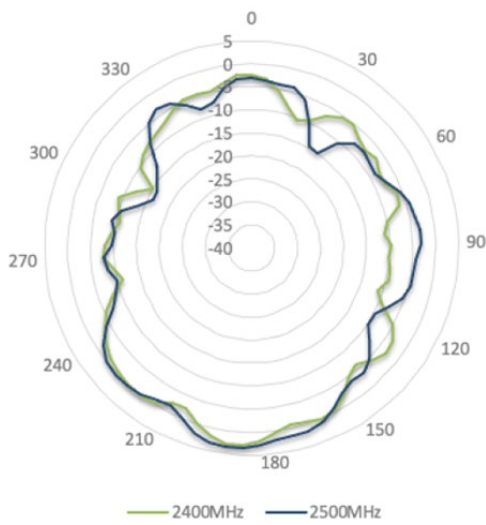




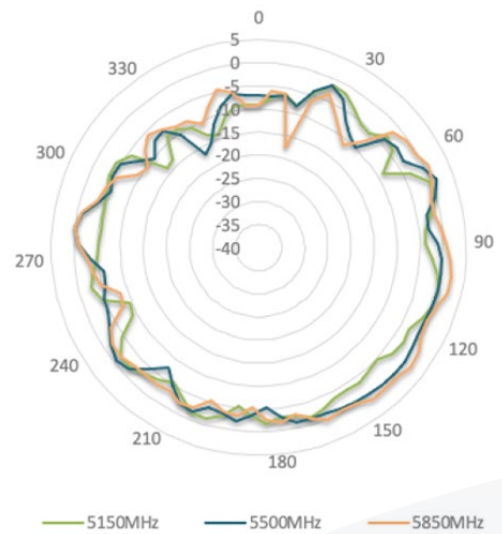
## Radiation Pattern

### Wi-Fi Radiation Patterns (Azimuth)

**2400-2500 MHz**

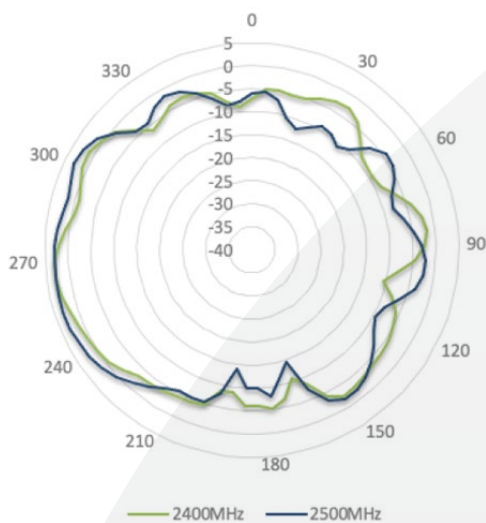


**5150-5850 MHz**

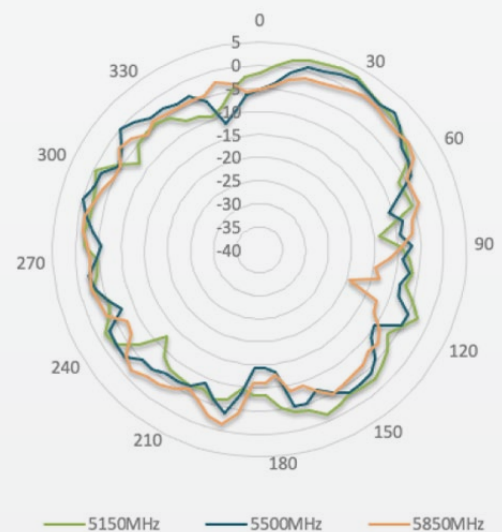


### Wi-Fi Radiation Patterns (Elevation 1)

**2400-2500 MHz**



**5150-5850 MHz**

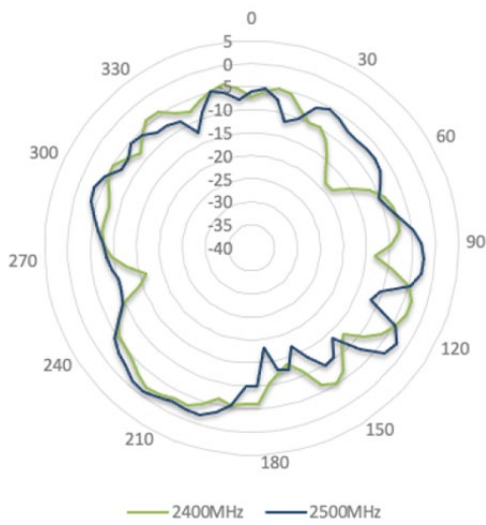




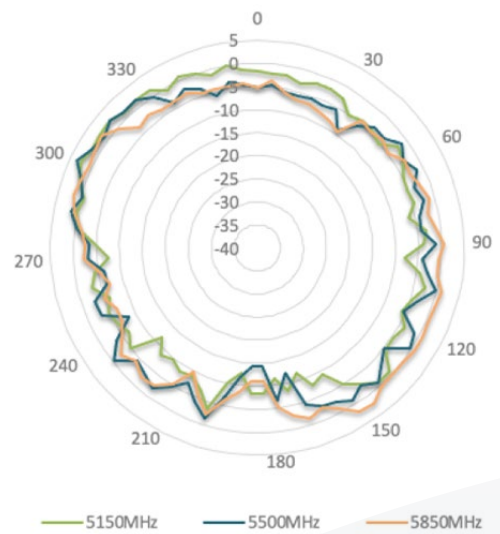
## Radiation Pattern

### Wi-Fi Radiation Patterns (Elevation 2)

**2400-2500 MHz**

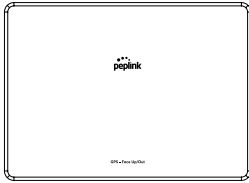


**5150-5850 MHz**



## Installation Recommendation

Step 1



This side face the sky

Velcro strip  
(hook and loop fastener)



Step 2

window  
or wall

