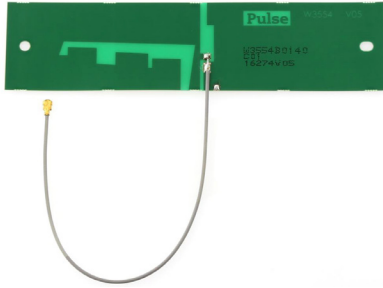


Internal 5G/4G PCB Antenna with Cable Assembly

W3554xxxx - 698 to 6000 MHz



Applications:

- Ⓜ Coaxial cable feed
- Ⓜ Multiple cable lengths and connector options (U-FL, SMA, MMCx and custom)
- Ⓜ 2G/3G/4G/5G
- Ⓜ GNSS
- Ⓜ WiFi, Bluetooth, BLE, Zigbee
- Ⓜ ISM 868, 915, 2400, 5000MHz

Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C¹

Frequency Bands: 698-960/1400-1600/1710-2690/3300-3800/4900-6000 MHz

| Antenna Type | Nominal Impedance | Return Loss | Radiation Pattern | Polarization | Power Withstanding |
|--------------------|--------------------|----------------------|----------------------|----------------------|------------------------|
| Monopole | 50Ω | per below | Omni | Linear | 5W |
| Frequency | 698-960 MHz | 1400-1600 MHz | 1710-2690 MHz | 3300-3800 MHz | 4900 - 6000 MHz |
| Return Loss | -4 dB | -3 dB | -6 dB | -5 dB | -4 dB |
| Peak Gain | 1.9 dBi | 2.5 dBi | 3.2 dBi | 3.3 dBi | 3.5 dBi |
| Average Efficiency | 45% | 53% | 66% | 57% | 37% |

Mechanical Specifications

Orderable PN: W3554xxxx (per below cable and connector options)

| Size (L x W x H) | | Color | Weight |
|-------------------|-------------------|---------------|--------------------------|
| 30 x 120 x 0.2 mm | | Green PCB | 1.5 grms |
| Part Number | Cable Length (mm) | Cable OD (mm) | Connector Type |
| W3554B0140 | 143 | 1.13 | U.FL Compatible |
| W3554B0140T | 143 | 1.13 | U.FL Compatible with ADH |
| W3554B0170 | 170 | 1.13 | U.FL Compatible |
| W3554B0293 | 293 | 1.13 | U.FL Compatible |
| W3554E0193 | 193 | 1.13 | Right angle MMCX male |
| W3554G0100 | 100 | 1.13 | SMA male |
| W3554G0254 | 254 | 1.13 | SMA male |
| W3554G0384 | 384 | 1.37 | SMA male |
| W3554G0457 | 457 | 1.13 | SMA male |
| W3554K0153 | 153 | 1.37 | Right angle SMA male |

Notes:

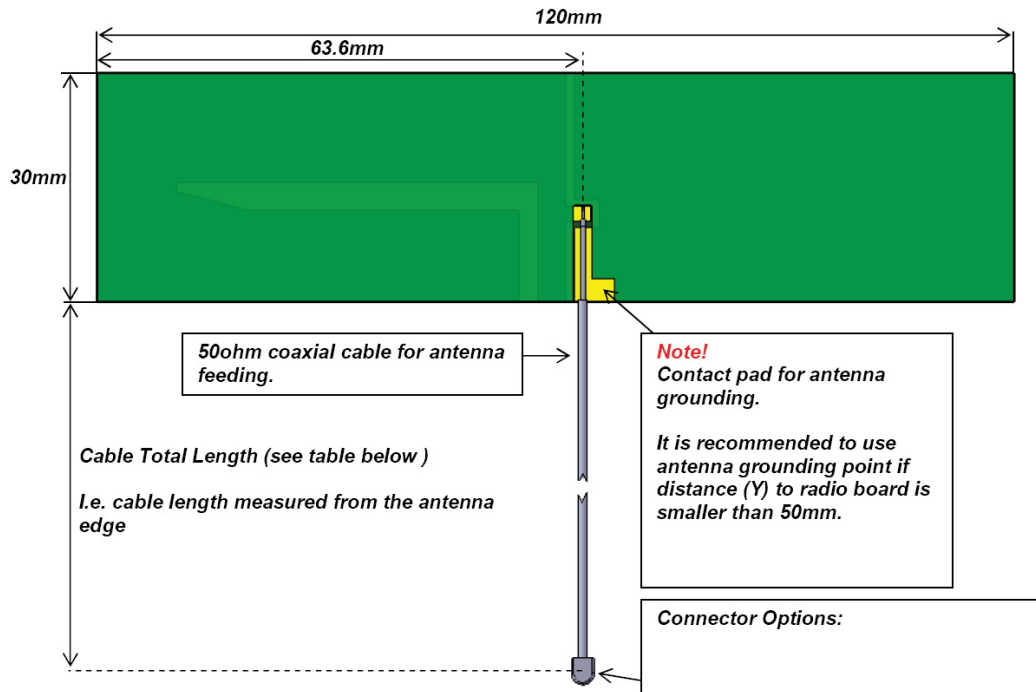
1. Storage Temperature: -40°C to 85°C
2. Other connector types and custom cable lengths are available upon request

Internal 5G/4G PCB Antenna with Cable Assembly

W3554xxxx - 698 to 6000 MHz

Mechanical

W3554xxxx



Packaging Info:

5PCS/PE bag
20PCS PE bag/Foam bag
10PCS foam bag/Carton box
Total: 1000PCS/Carton box

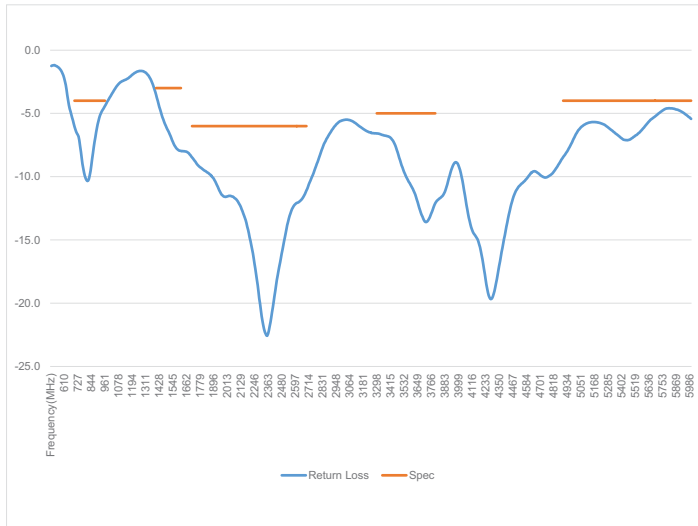


W3554xxxx - 698 to 6000 MHz

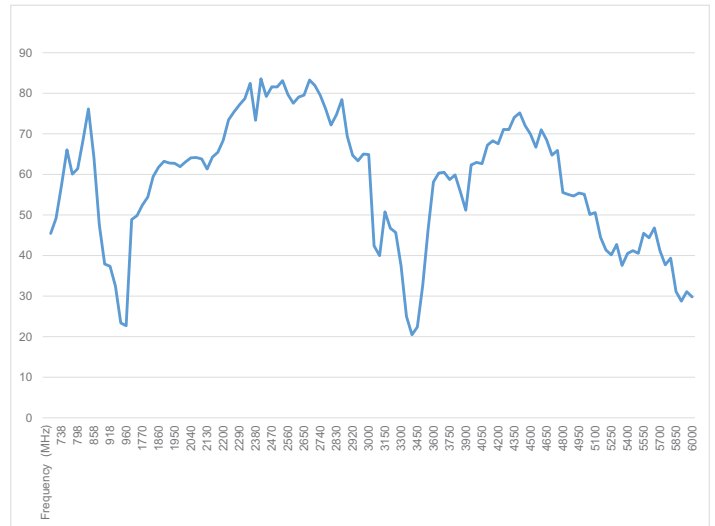
Charts

W3554xxxx

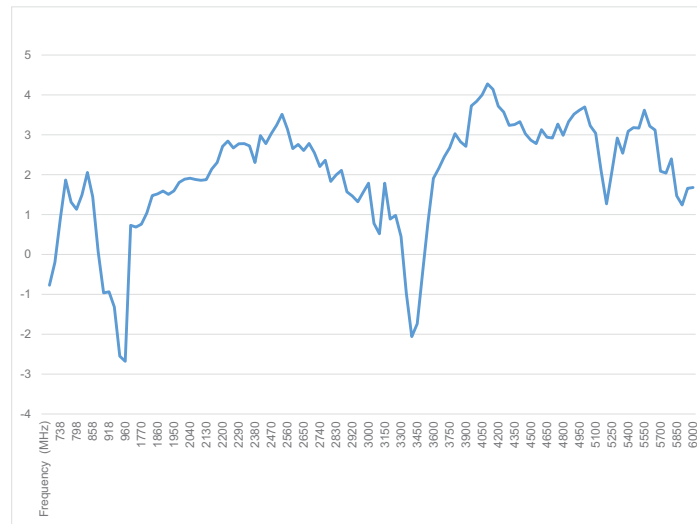
Return Loss



Efficiency (%)



Peak Gain (dBi)



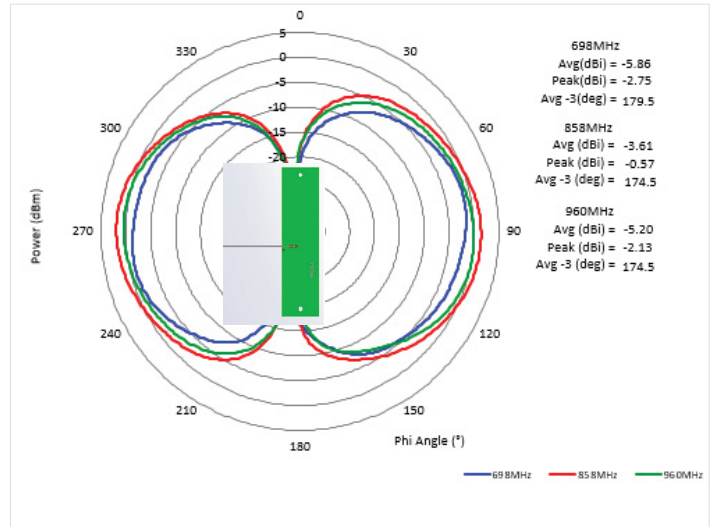
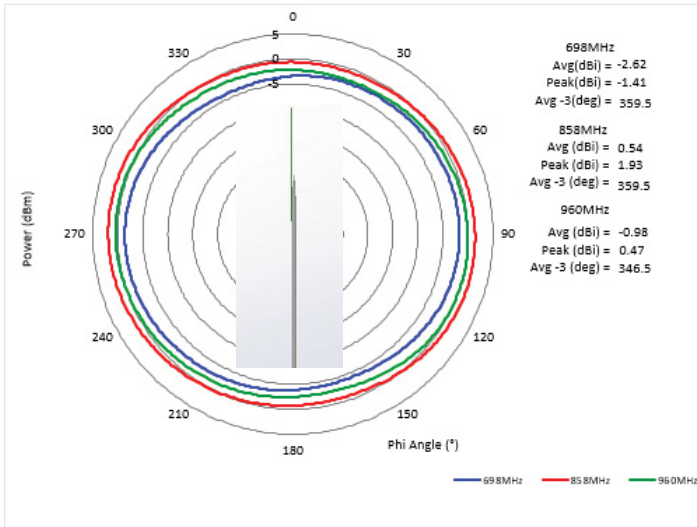
Charts

698MHz - 960MHz

Free Space Radiation Pattern

Horizontal Plane

Elevation Plane

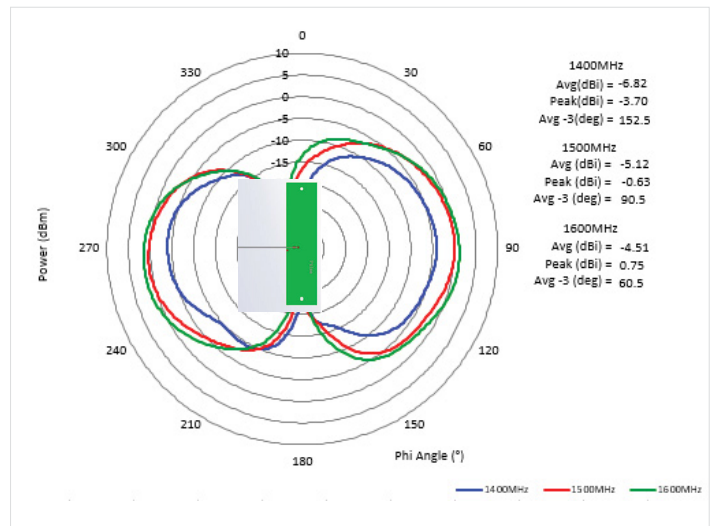
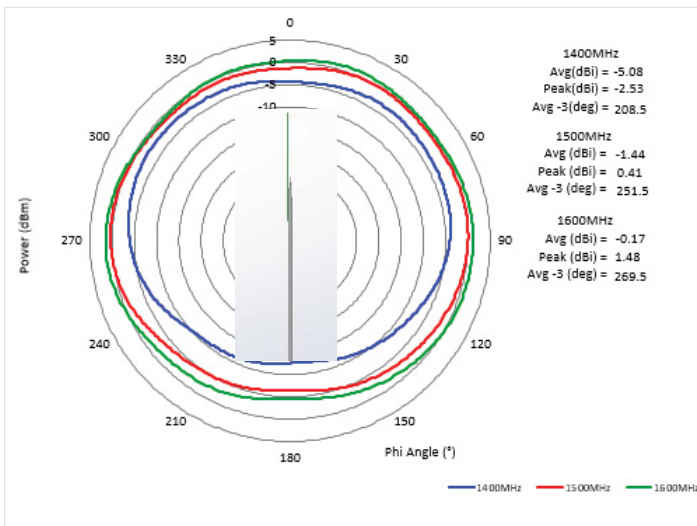


1400MHz - 1600MHz

Free Space Radiation Pattern

Horizontal Plane

Elevation Plane



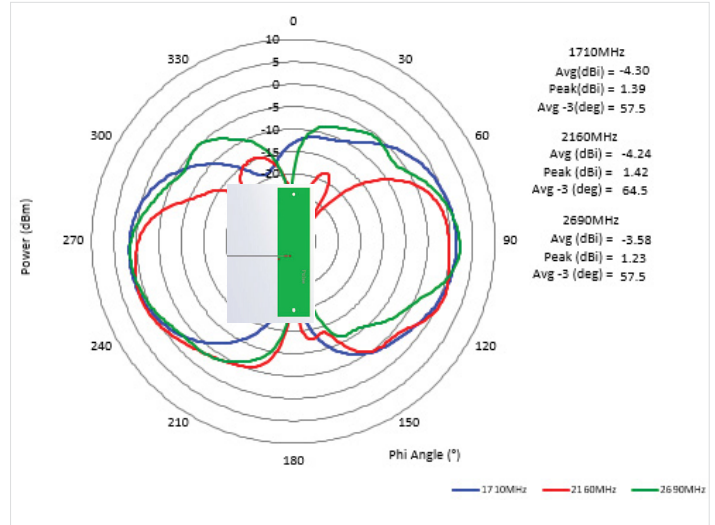
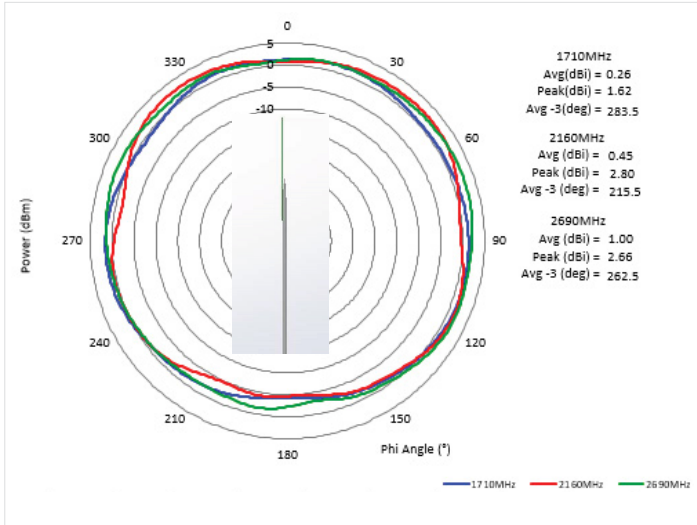
Charts

1710MHz - 2690MHz

Free Space Radiation Pattern

Horizontal Plane

Elevation Plane

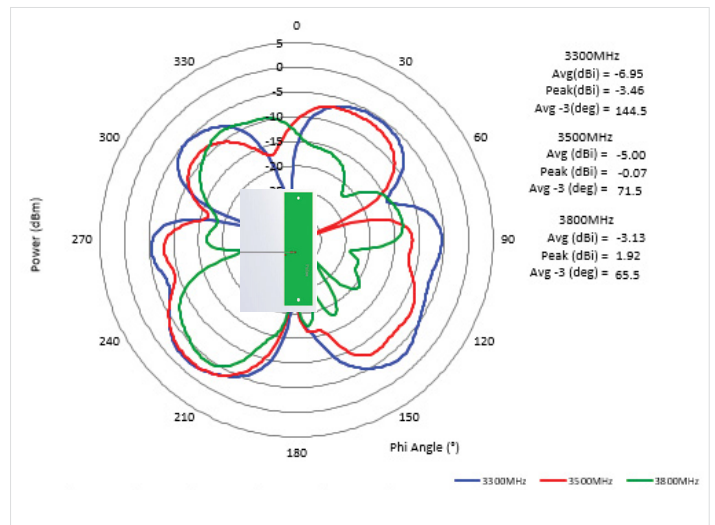
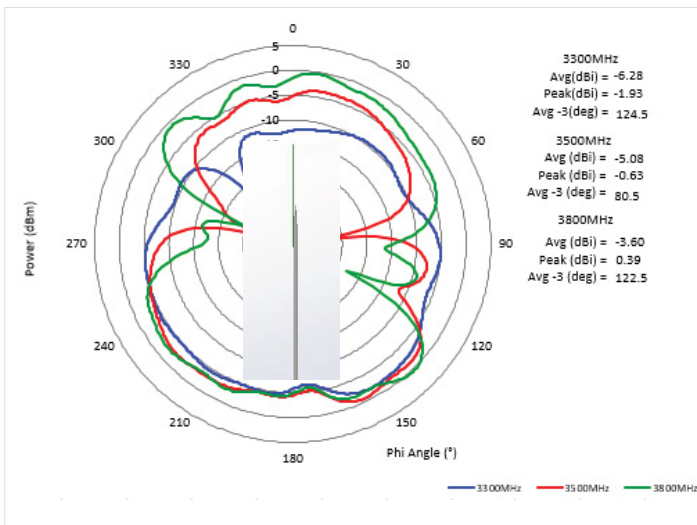


3300MHz - 3800MHz

Free Space Radiation Pattern

Horizontal Plane

Elevation Plane



Internal 5G/4G PCB Antenna with Cable Assembly

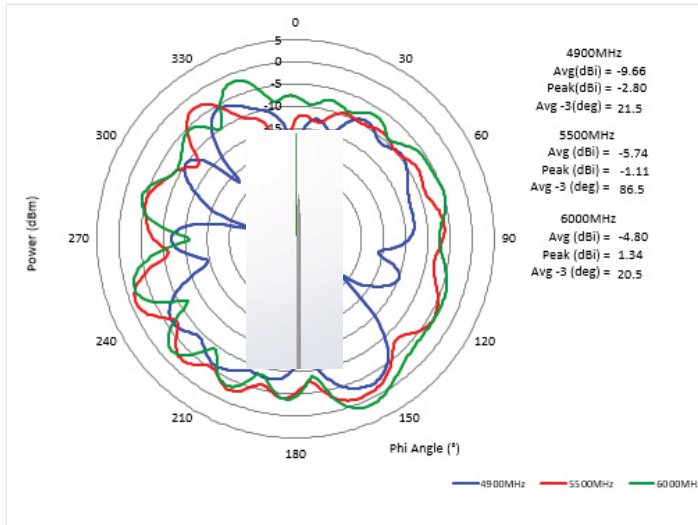
W3554xxxx - 698 to 6000 MHz

Charts

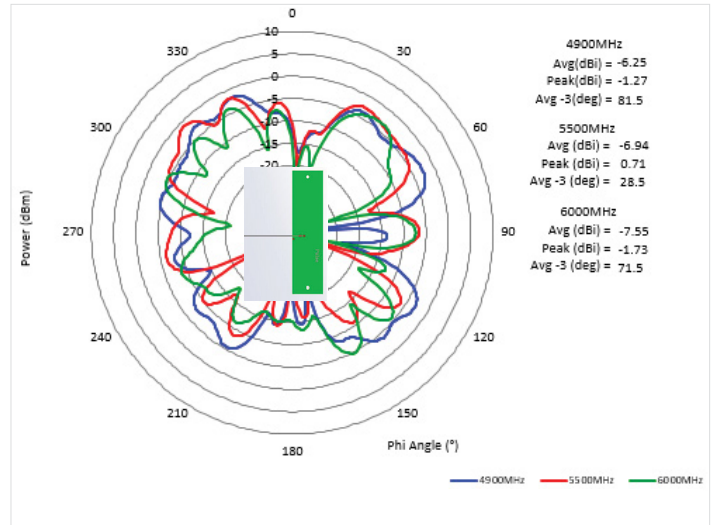
4900MHz - 6000MHz

Free Space Radiation Pattern

Horizontal Plane



Elevation Plane



For More Information:

Americas - antennas.us@pulseelectronics.com | Europe - antennas.eu@pulseelectronics.com | Asia - antennas.as@pulseelectronics.com | Questions? +1-800-ANTENNA

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