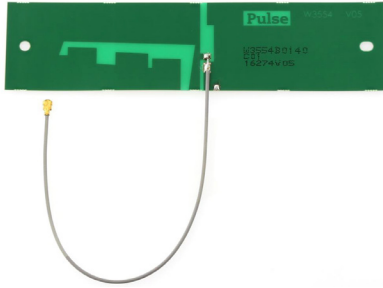


# Internal 5G/4G PCB Antenna with Cable Assembly

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°C<sup>1</sup>

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          | <b>698-960 MHz</b> | <b>1400-1600 MHz</b> | <b>1710-2690 MHz</b> | <b>3300-3800 MHz</b> | <b>4900 - 6000 MHz</b> |
| 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:

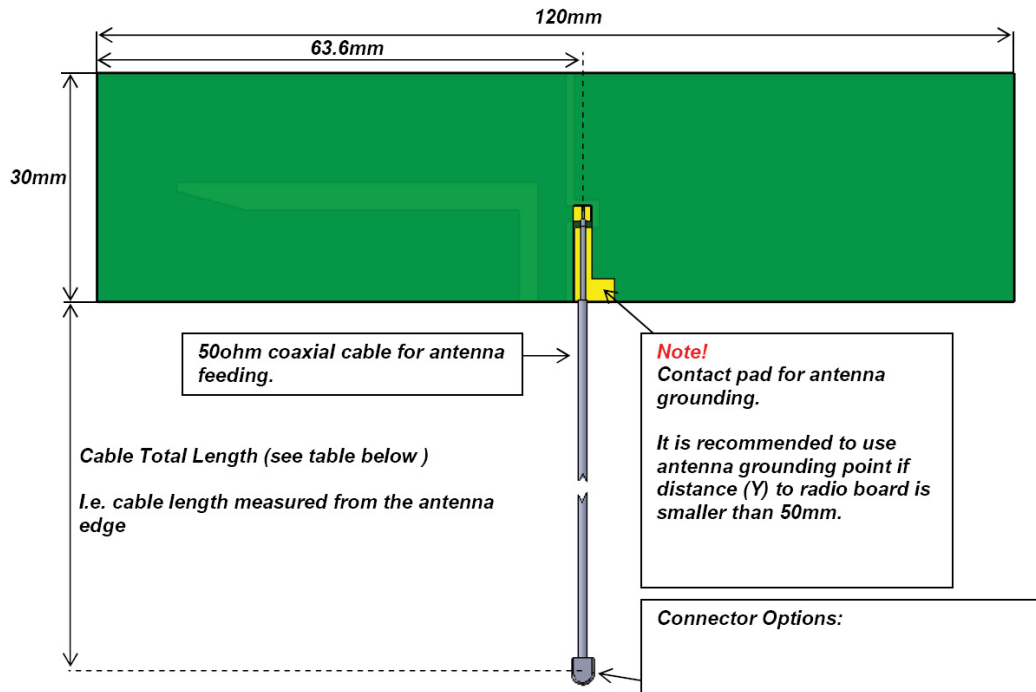
1. Storage Temperature: -40°C to 85°C
2. Other connector types and custom cable lengths are available upon request

# 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

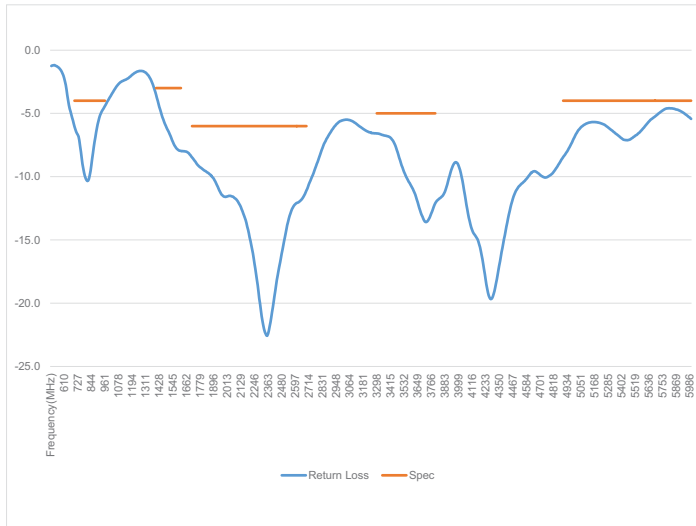


W3554xxxx - 698 to 6000 MHz

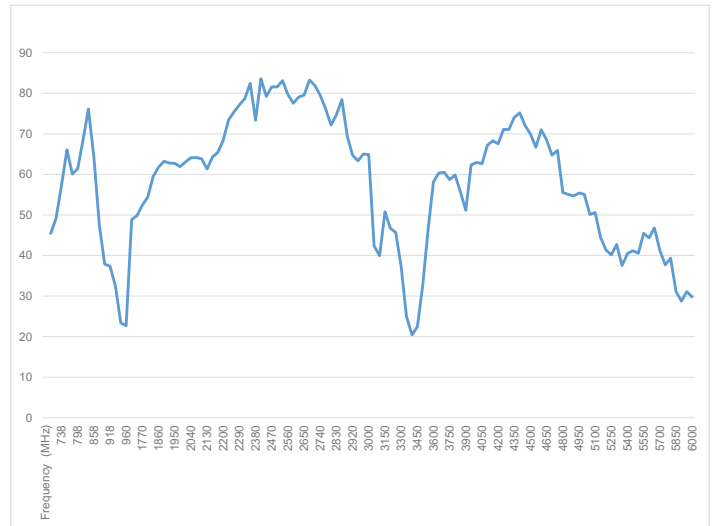
## Charts

W3554xxxx

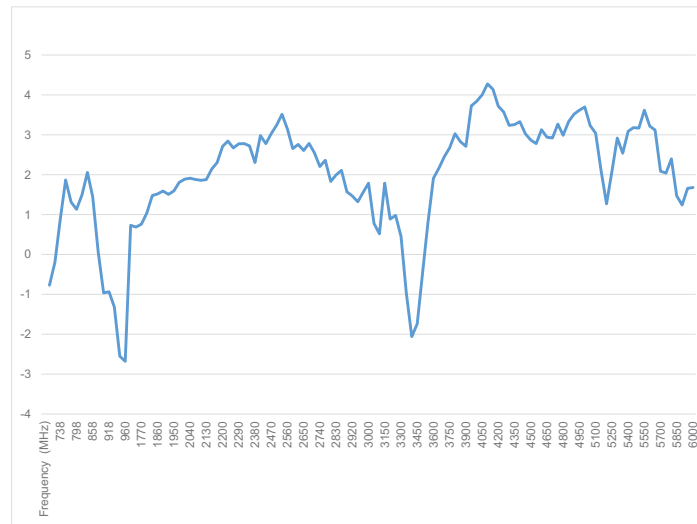
### Return Loss



### Efficiency (%)



### Peak Gain (dBi)

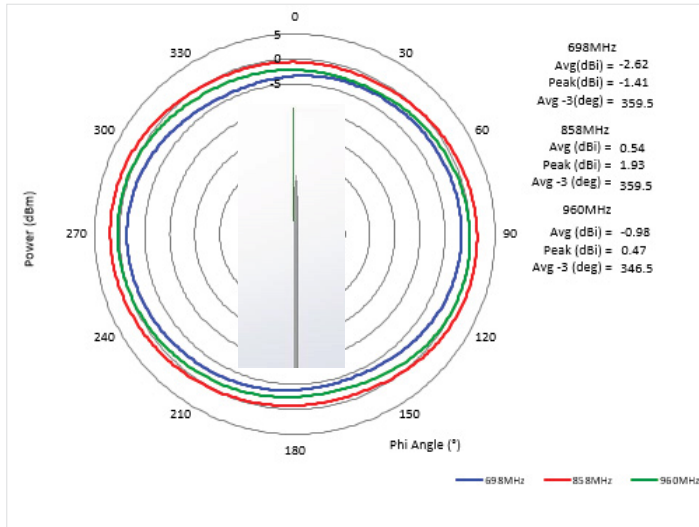


Charts

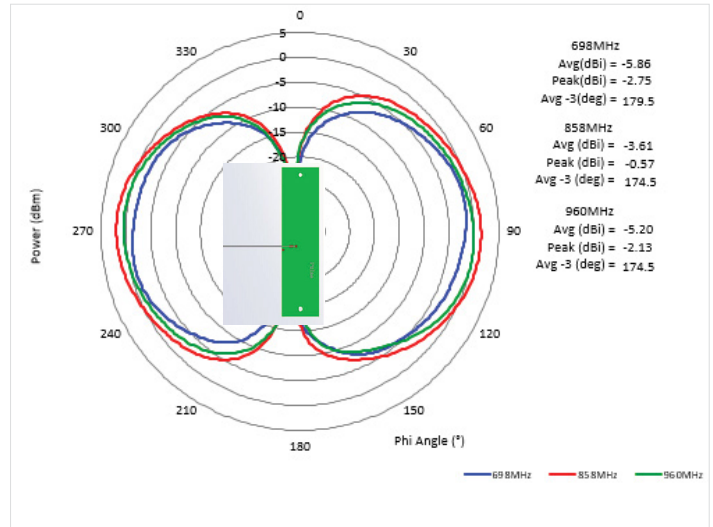
698MHz - 960MHz

Free Space Radiation Pattern

Horizontal Plane



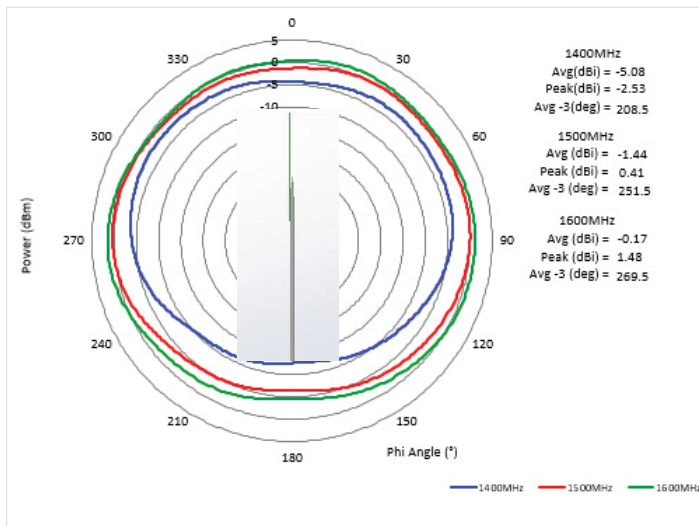
Elevation Plane



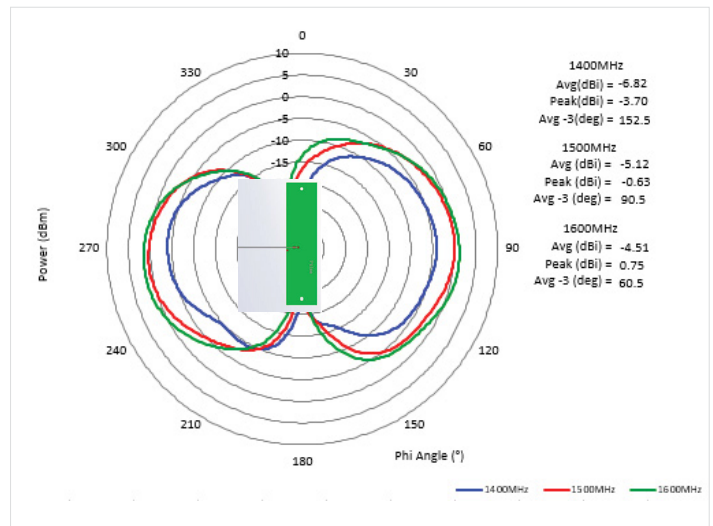
1400MHz - 1600MHz

Free Space Radiation Pattern

Horizontal Plane



Elevation Plane

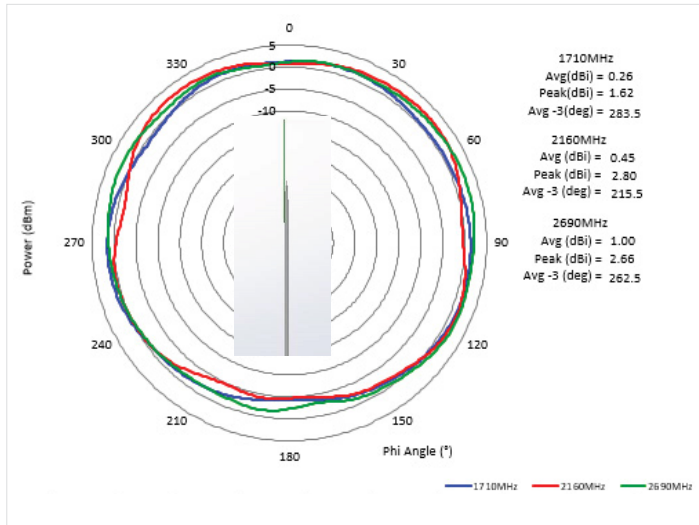


Charts

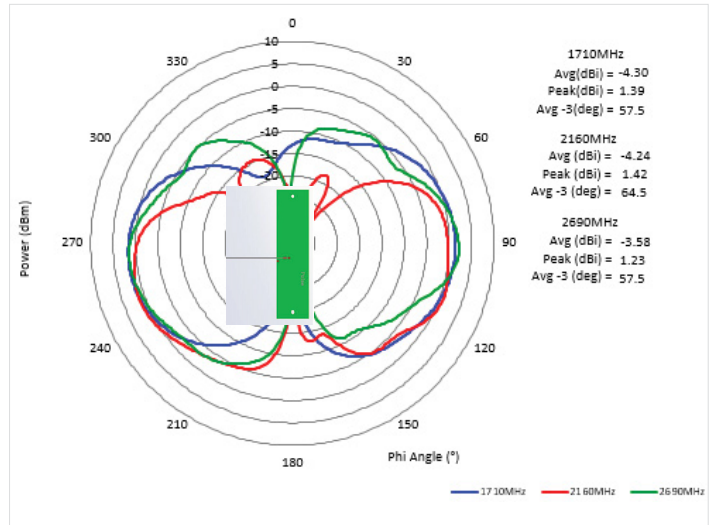
1710MHz - 2690MHz

Free Space Radiation Pattern

Horizontal Plane



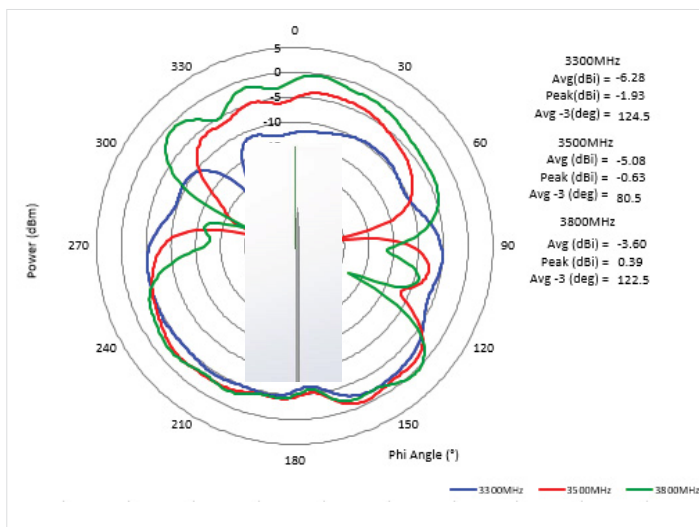
Elevation Plane



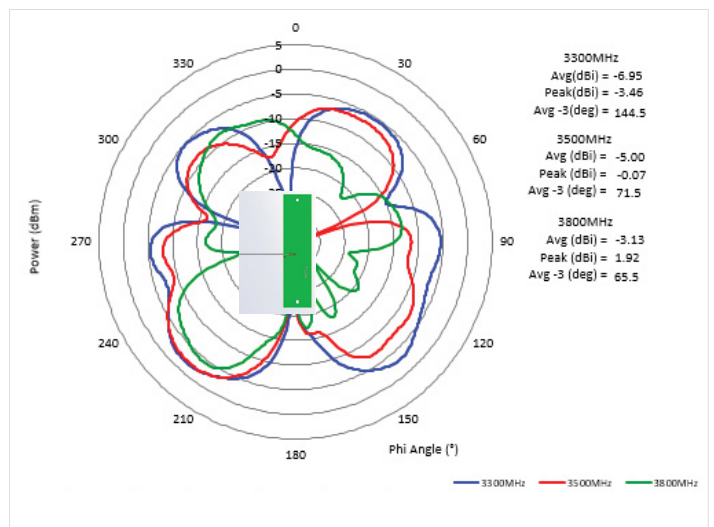
3300MHz - 3800MHz

Free Space Radiation Pattern

Horizontal Plane



Elevation Plane



# Internal 5G/4G PCB Antenna with Cable Assembly

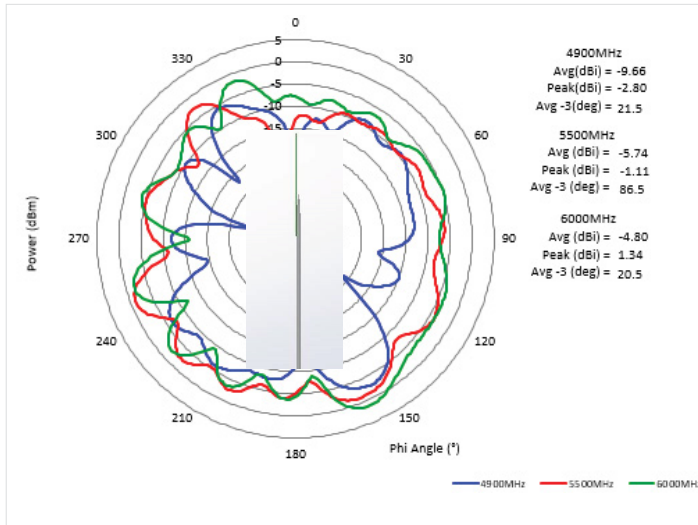
W3554xxxx - 698 to 6000 MHz

## Charts

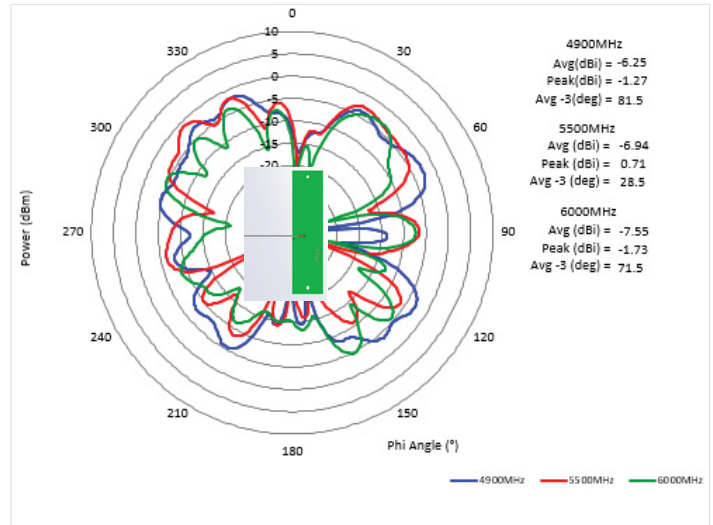
4900MHz - 6000MHz

### Free Space Radiation Pattern

Horizontal Plane



Elevation Plane



### For More Information:

Americas - [antennas.us@pulseelectronics.com](mailto:antennas.us@pulseelectronics.com) | Europe - [antennas.eu@pulseelectronics.com](mailto:antennas.eu@pulseelectronics.com) | Asia - [antennas.as@pulseelectronics.com](mailto:antennas.as@pulseelectronics.com) | Questions? +1-800-ANTENNA

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