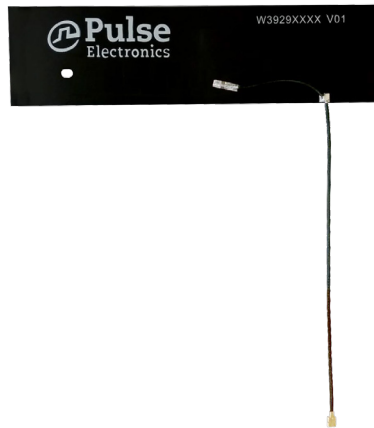


# Internal 5G/4G FPC Antenna with Cable Assembly

W3929xxxxx - 617MHz to 3900MHz



## Applications:

- ④ 4G and 5G Products
- ④ Adheres to plastic surfaces and foldable for tight spaces
- ④ Challenging RF Environments Demanding:
  - Highest Peak Gain
  - Excellent Radiation Patterns
- ④ Security, Video, Graphics
- ④ IoT, SmartGrid, Meters, Remote Monitoring, Sensor Networks

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

### Frequency Bands - 617-6000 MHz

| Antenna Type | Nominal Impedance | Return Loss  | Radiation Pattern | Polarization | Power Withstanding |
|--------------|-------------------|--------------|-------------------|--------------|--------------------|
| FPC          | 50Ω               | <-6 db       | Omni              | Linear       | 3W                 |
| Frequency    | 617-960MHz        | 1710-2690MHz | 3400-3900MHz      |              |                    |
| Gain         | 2 dBi             | 2 dBi        | 2 dBi             |              |                    |
| Efficiency   | 60%               | 60%          | 60%               |              |                    |

## Mechanical Specifications

Orderable PN: W3929B0100

| Size – (Dia x Length) | Antenna Color / Material | Connector Type          | Cable Type   | Cable Length | Fixing System |
|-----------------------|--------------------------|-------------------------|--------------|--------------|---------------|
| 115.8mm x 30.4mm      | BLACK FPC                | Equivalent of I-PEX MHF | AWG#321.13MM | 100MM        | 3M 467 Tape   |

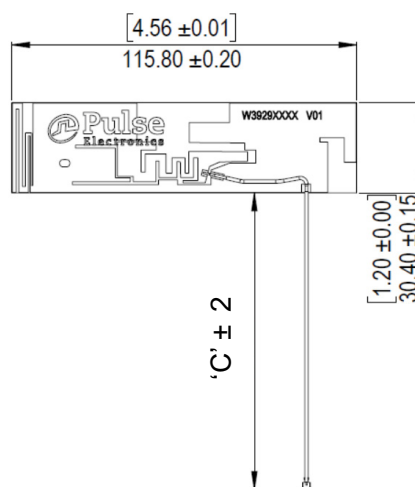
### Notes:

Storage Temperature: -40°C to 85°C

Other connector types and custom cable lengths are available upon request

## Mechanical

W3929xxxxx



Dimensions:  $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,  
all tolerances are  $\pm \frac{.010}{0.25}$

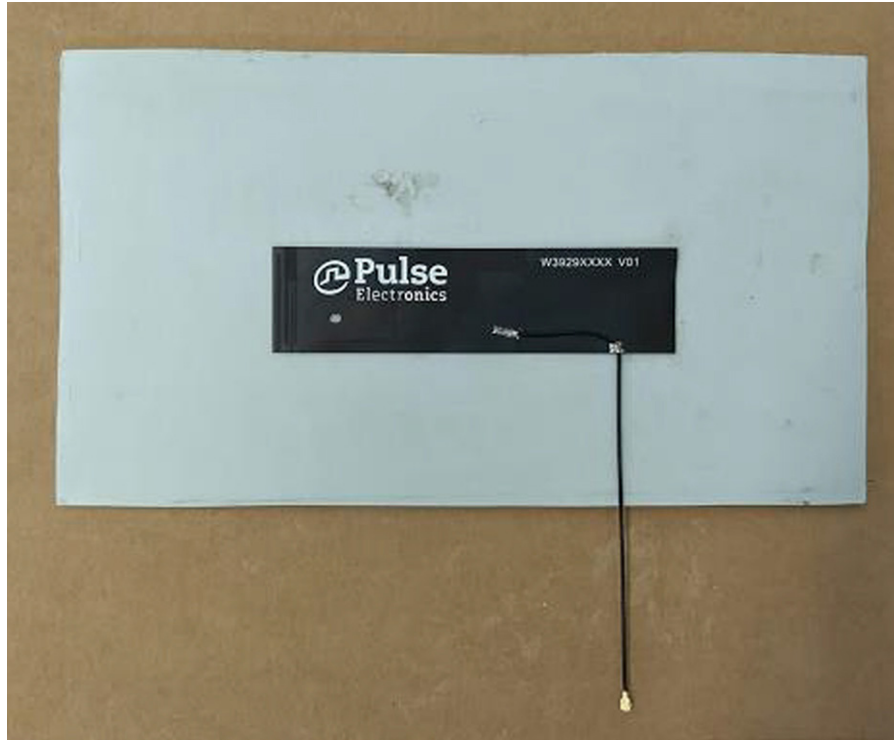
# Internal 5G/4G FPC Antenna with Cable Assembly

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## Test Setup

W3929xxxxx

RF parameter testing is done when antenna is mounted on 2 mm thick plastic plate.

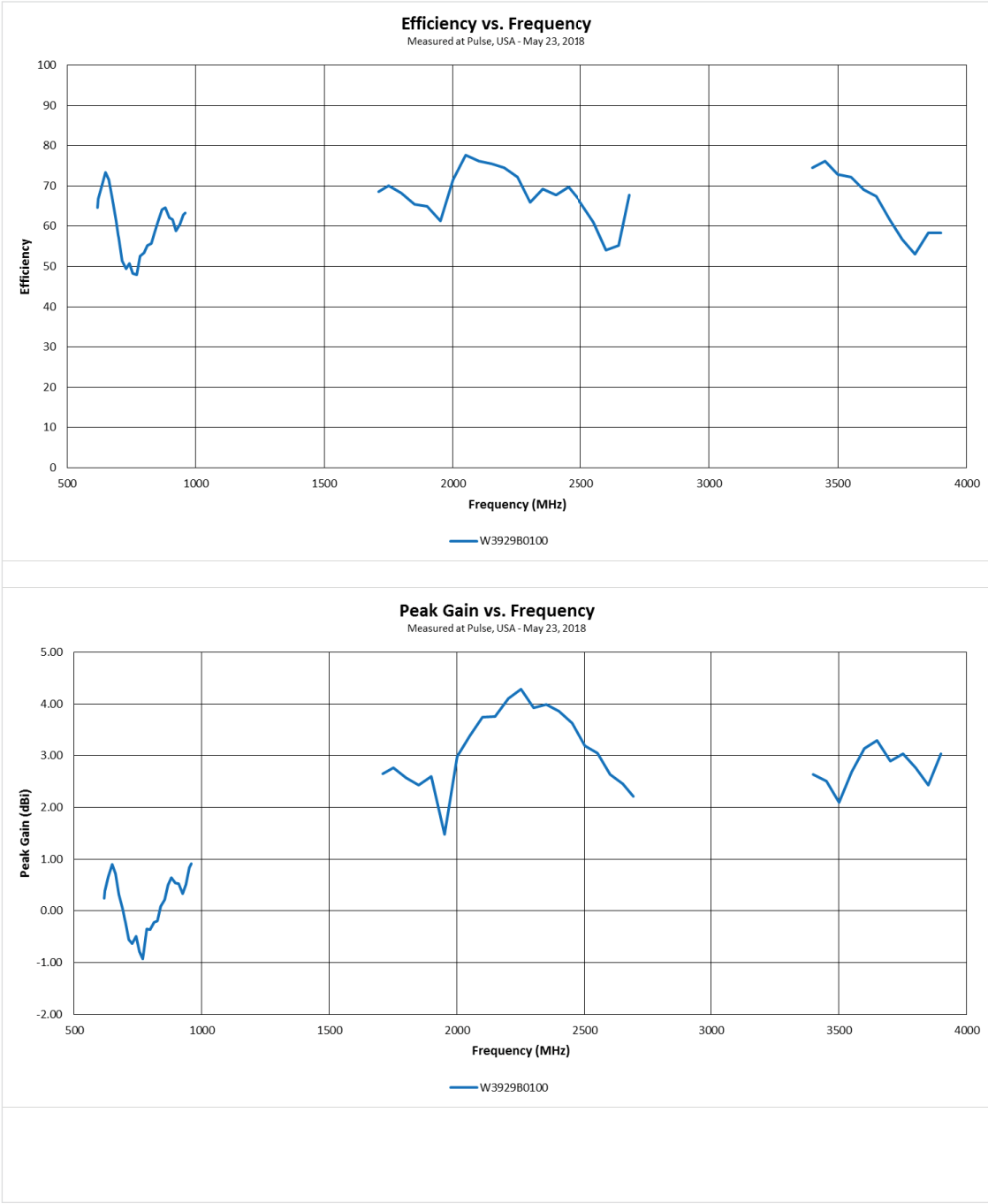


# Internal 5G/4G FPC Antenna with Cable Assembly

W3929xxxxx - 617MHz to 3900MHz

## Charts

W3929xxxxx

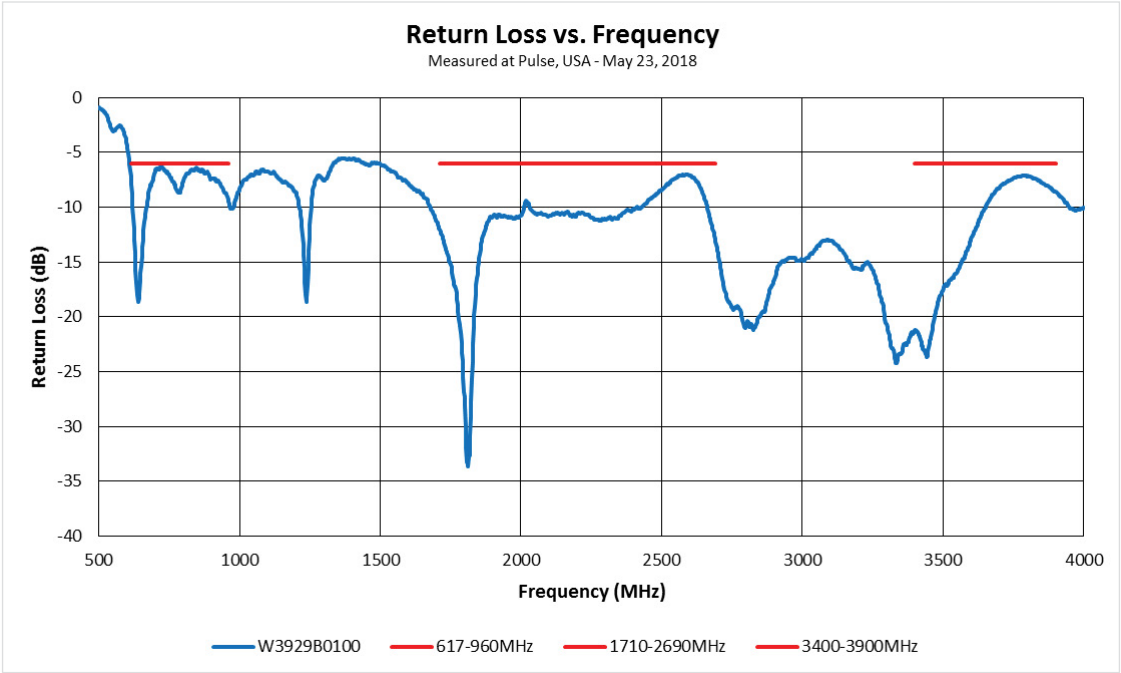


Internal  
5G/4G FPC Antenna with Cable Assembly

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Charts

W3929xxxxx

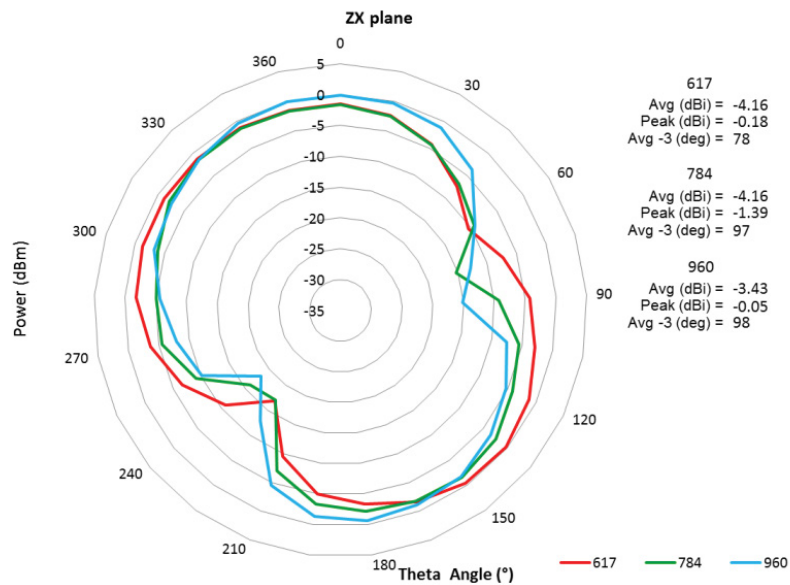


W3929xxxxx - 617MHz to 3900MHz

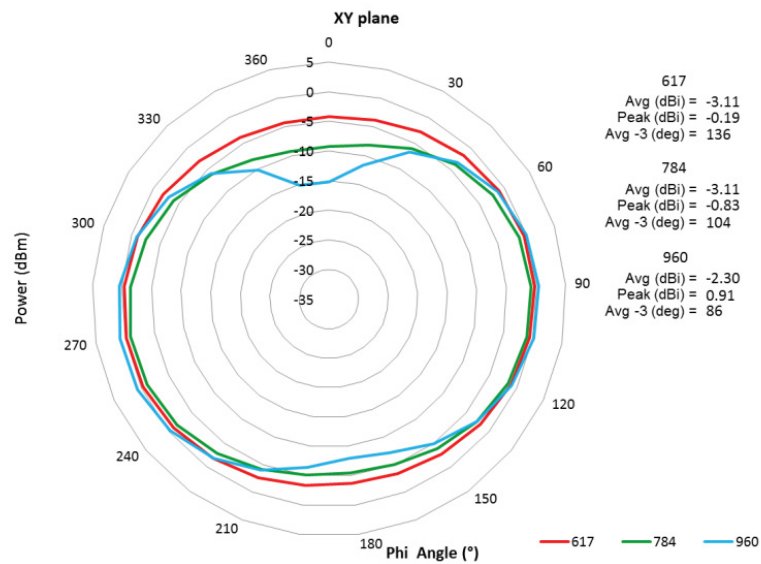
## Radiation Patterns Charts

617MHz - 960MHz

### Elevation Plane



### Azimuth Plane

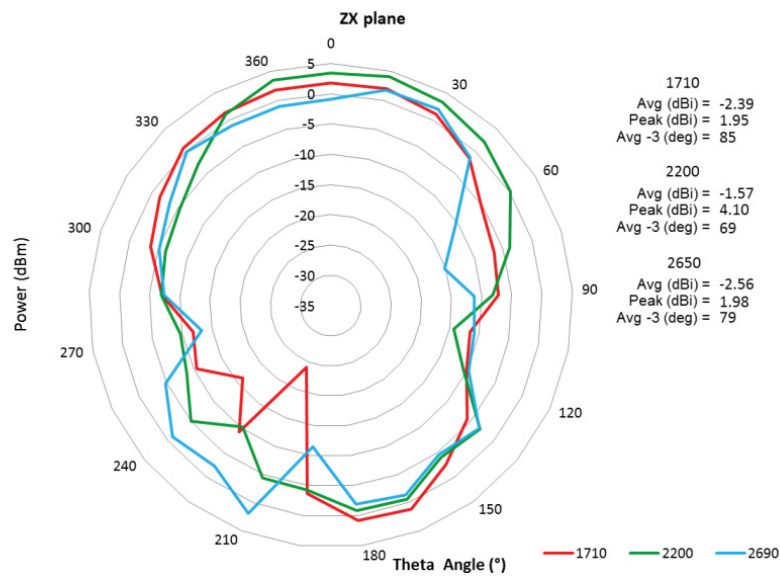


W3929xxxxx - 617MHz to 3900MHz

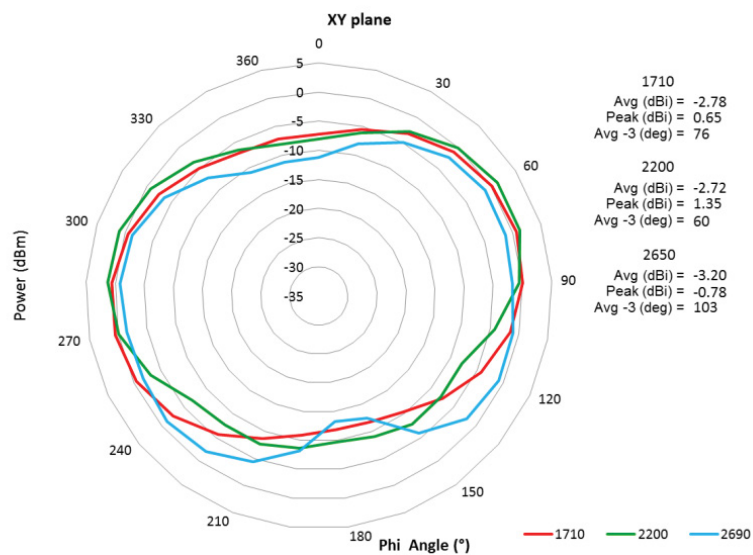
## Radiation Patterns Charts

1710MHz - 2690MHz

### Elevation Plane



### Azimuth Plane

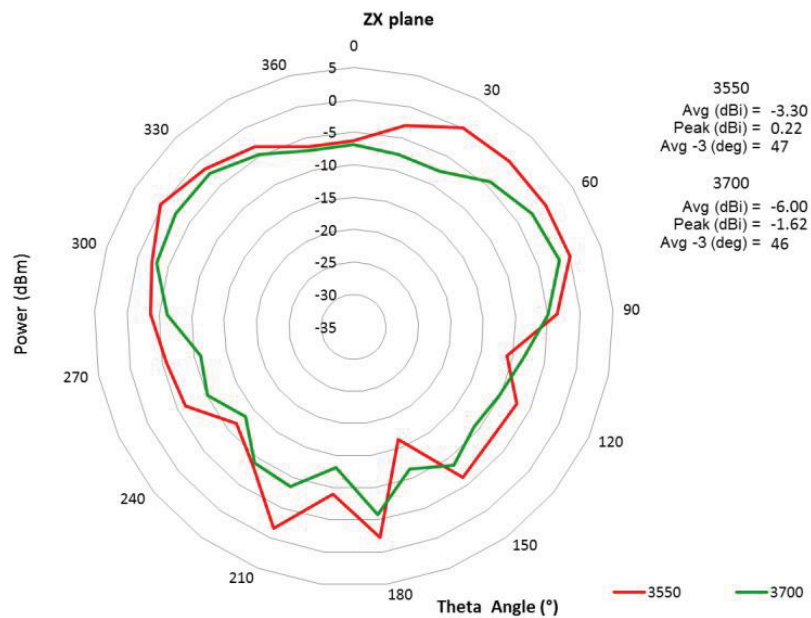


W3929xxxxx - 617MHz to 3900MHz

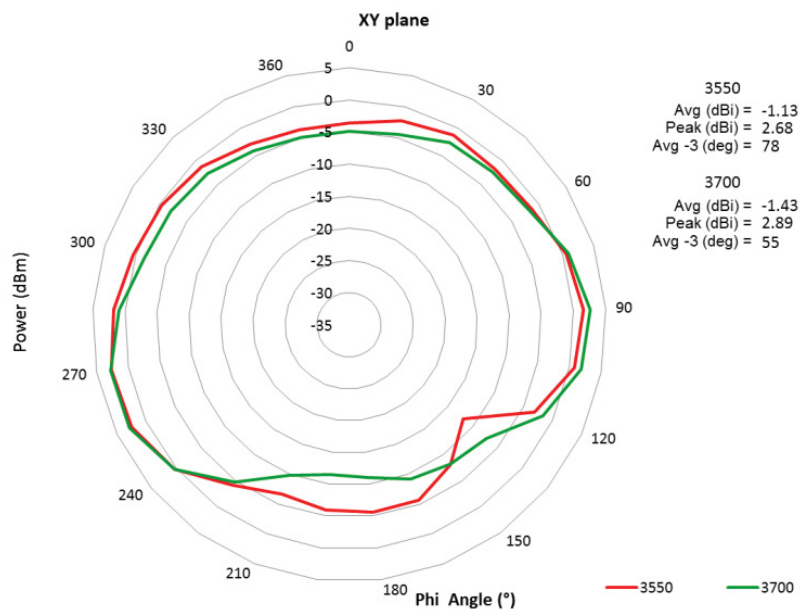
## Radiation Patterns Charts

3400MHz - 3900MHz

### Elevation Plane



### Azimuth Plane



# Internal

## 5G/4G FPC Antenna with Cable Assembly

W3929xxxxx - 617MHz to 3900MHz

### PACKAGING

W3929xxxxx

10pcs antenna per PE bag  
10pcs PE bags per form bag  
12pcs form bag per package box  
Total 1200pcs per package box  
Package box: 460mm\*235mm\*140mm

#### 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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