

Internal Antenna 5G/4G FPC Antenna

W3435xxxx – 617-6000 MHz



Applications:

- 5G FR1/4G
- Includes Band 71 (617-698MHz)
- Foldable for tight spaces
- Security, Video, Graphics
- Transportation, Tracking
- IoT Devices

| Electrical specifications @ 25° C – Operating Temperatures – 40°C to +80°C | | | | | |
|--|-------------------|--------------|-------------------|--------------------|--|
| Frequency Bands – 617-960/1710-2690/3300-4200/4400-5000/5150-6000 MHz | | | | | |
| Antenna type ² | Nominal Impedance | Polarization | Radiation pattern | Power withstanding | |
| Dipole | 50Ω | Linear | Omni | 3W | |

| Port | Frequency (MHz) | 617-960 | 1710-2690 | 3300-4200 | 4400-5000 | 5150-6000 |
|--------|---------------------|---------|-----------|-----------|-----------|-----------|
| Port 1 | Return Loss (dB) | < -5 | < -5 | < -5 | < -5 | < -5 |
| | Peak Gain (dBi) | 2 | 5 | 3.5 | 6 | 4 |
| | Avg. Efficiency (%) | 40 | 60 | 55 | 40 | 40 |

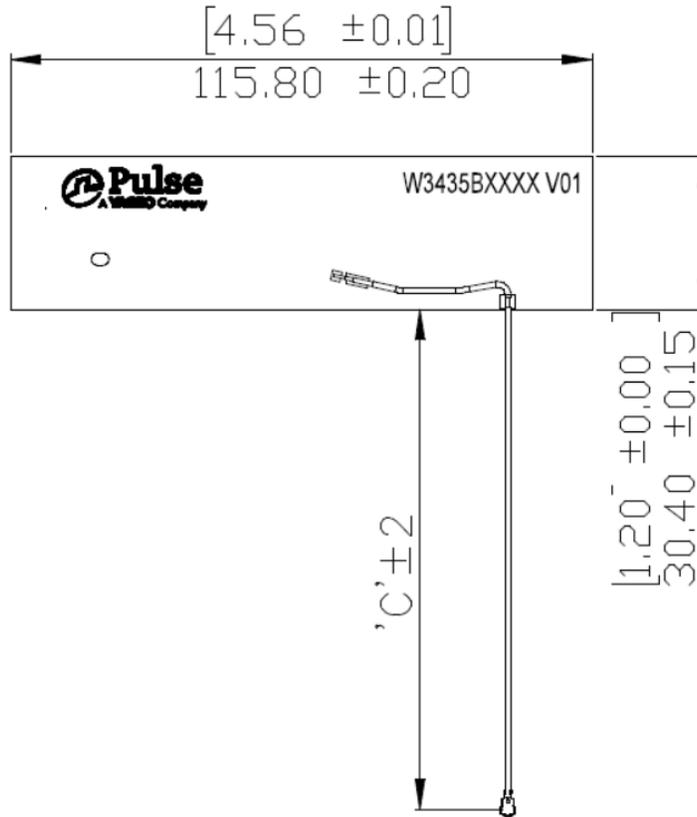
| Mechanical Specifications | | | | |
|------------------------------|--------|------------------|--------------------------------|------------|
| Orderable PN: W3435B0100 | | | | |
| Dimension | Color | Antenna Material | Connector Type ^{3, 5} | Cable Type |
| Length x Width x Thickness | Black | FPC+3M 467 | Equivalent of I-PEX MHF | 1.13mm |
| 115.8 x 30.4 x 0.1 mm | | | | |
| Cable Length ^{4, 5} | Weight | RoHS-6 Compliant | | |
| 100mm | 2gram | Yes | | |

Notes:

1. Storage Temperature: -40°C to 80°C
2. FPC antenna is measured on the 2mm ABS/PC plate.
3. Default Connector: Equivalent of I-PEX MHF or compatible with U.FL connector.
4. Cable length is a distance between the edge of PCB and the center of connector.
5. Contact sales for custom cable lengths and connector type.

Mechanical Drawing

W3435B0100

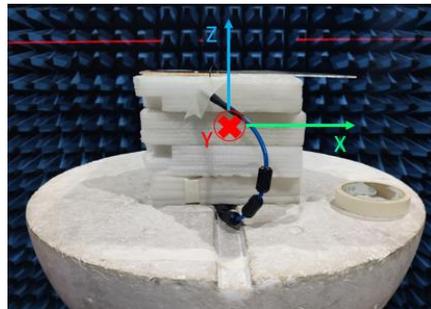


| P.N | C' LENGTH | CABLE TYPE | CONNECTOR TYPE |
|------------|-----------|---------------|-------------------------|
| W3435B0100 | 100mm | AWG#32 1.13mm | Equivalent of I-PEX MHF |

Dimensions: mm
 Unless otherwise specified, all tolerances are ±0.25mm

Testing Setup

W3435B0100



Measured on 2mm thick PC plate with 100mm cable.

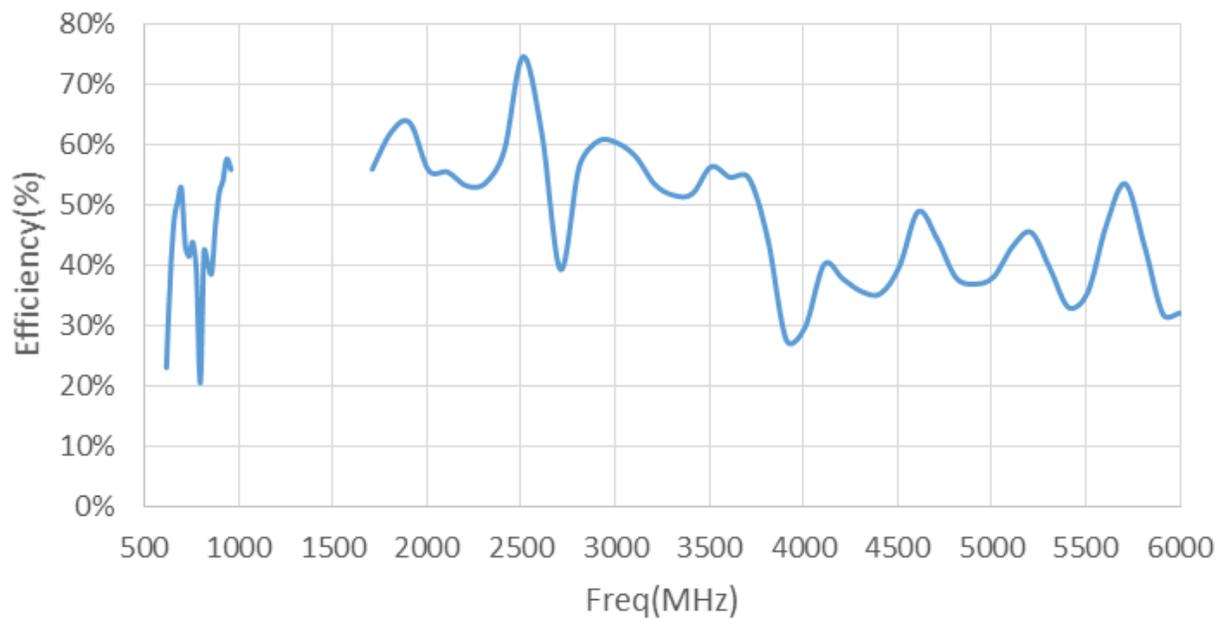
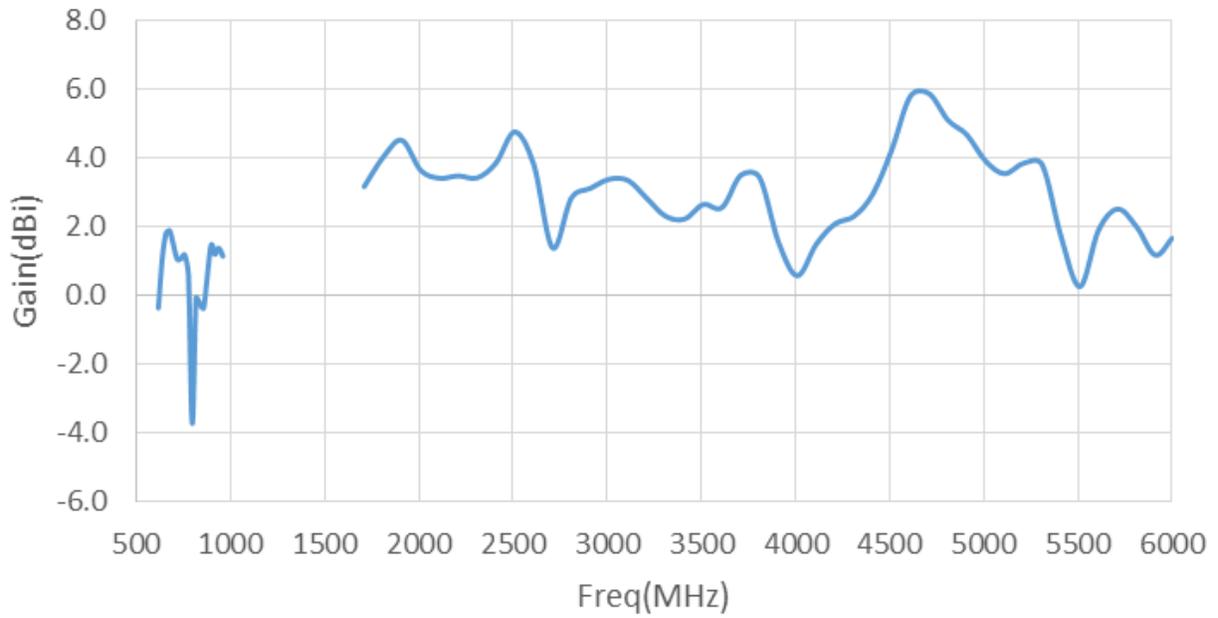
Charts- Return Loss

W3435B0100



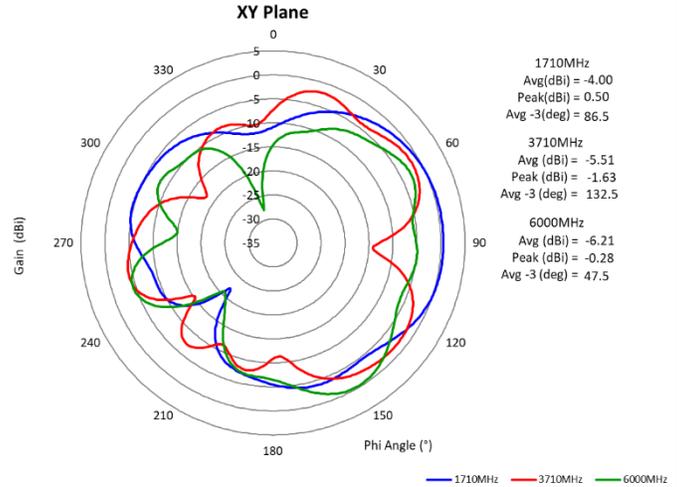
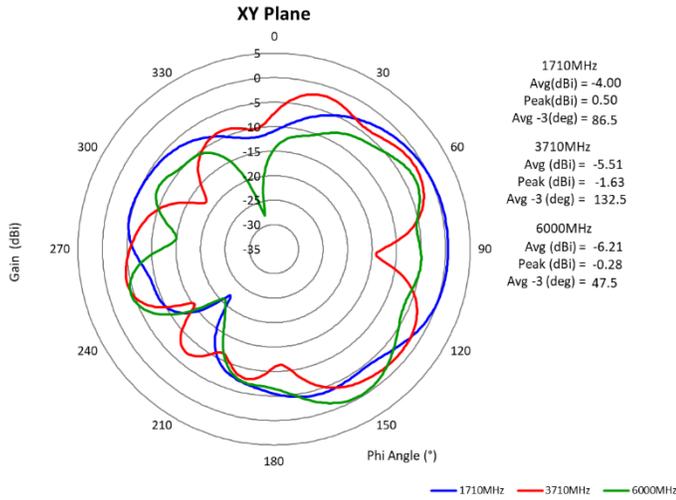
Charts- Peak Gain and Efficiency

W3435B0100



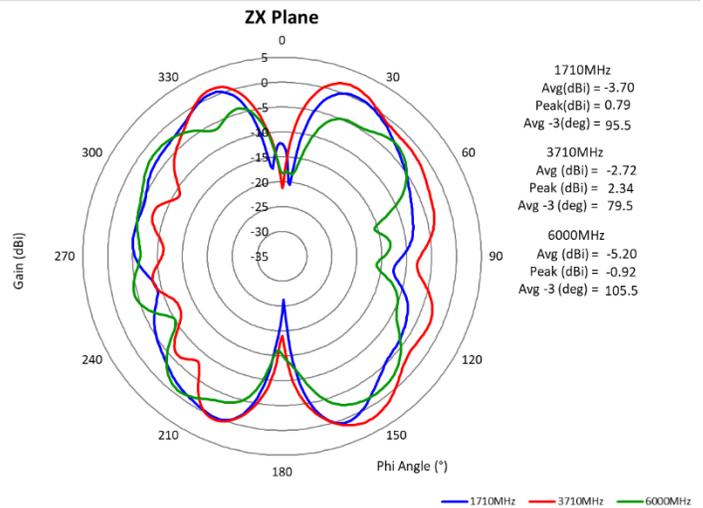
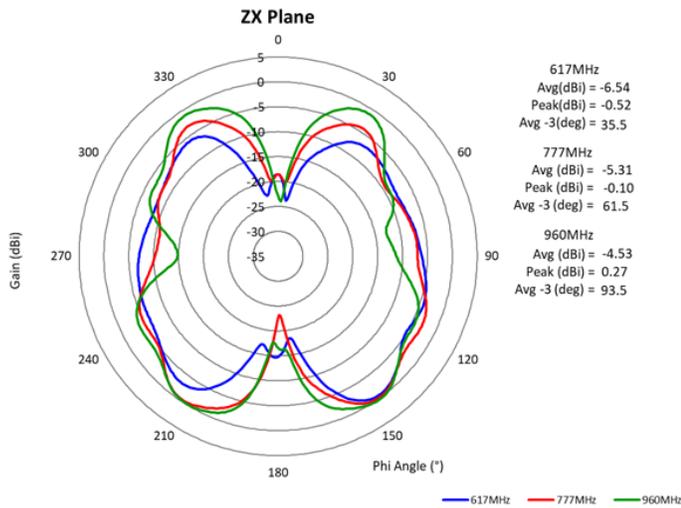
Charts- XY Gain Plots, Port 1

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Charts – ZX Gain Plots, Port 1

W3435B0100



Package

W3435B0100

Packaging info:

10 antennas put into a PE bag, every 10 PE bag into a bubble bag and sealing it.

12 bubble bags into 1 out box.

Total 1200pcs antenna in 1 out box.

Package box size: 4600mm x 235mm x 1400mm

Additional Product Info

W3435B100

Family Products – 5G FR1 FPC

5G / 4G FPC Antennas

| Orderable PN | Frequency (MHz) | Connector Type | Cable Length | Cable Type |
|--------------|-------------------|-------------------------|--------------|-----------------|
| W6114B0100 | 617-960/1427-7125 | Equivalent of I-PEX MHF | 100mm | 1.13mm (AWG#32) |
| W3929B0100 | 617-960/1710-3900 | Equivalent of I-PEX MHF | 100mm | 1.13mm (AWG#32) |

For More Information:

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