

**Description:** 698-960/1710-3800MHz Stick Antenna with RA SMA connector

**Series:** Stick Antenna

**PART NUMBER:** W1096X



### Features:

- 4G/5G Stick Antenna
- Performance across the LTE frequency bands
- 698-960/1710-2690/3400-3800 MHz
- Up to 2 dBi Gain
- Right Angle SMA or RP SMA Male connector
- IP65

### Applications:

- 4G / 5G Radios
- Router, Hub or Access point
- Small Base Station
- Femto Cell
- SOHO

All dimensions are in mm / inches

Issue: 2033

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**This document covers all product variants of the following product family**

| Antennas | Connector      |
|----------|----------------|
| W1096    | RA RP SMA Male |
| W1096RM  | RA SMA Male    |

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**ELECTRICAL SPECIFICATIONS**

|                         |                                 |
|-------------------------|---------------------------------|
| Antenna Type            | Monopole antenna                |
| Frequency               | 698-960/1710-2690/3400-3800 MHz |
| Nominal Impedance       | 50 Ω                            |
| VSWR(Max)               | 3.5:1 / 2:1 / 4:1               |
| Radiation Pattern       | Omni                            |
| Gain 698-960MHz         | >-3 dBi                         |
| Gain 1710-2690MHz       | >1.5 dBi                        |
| Gain 3400-3800MHz       | >-0.5 dBi                       |
| Efficiency 698-960MHz   | >30 %                           |
| Efficiency 1710-2690MHz | >60 %                           |
| Efficiency 3400-3800MHz | >45 %                           |
| Polarization            | Linear                          |
| Power Withstanding      | 3 W                             |

**MECHANICAL SPECIFICATIONS**

|                          |   |
|--------------------------|---|
| Overall Length           | 112±3mm   |
| Weight                   | 13g   |
| Antenna Color / Material | Black   |
| Connector type           | W1096: Right Angle RP SMA Male, Silver Ni plating<br>W1096RM: Right Angle SMA Male, Silver Ni plating |

**ENVIRONMENTAL SPECIFICATIONS**

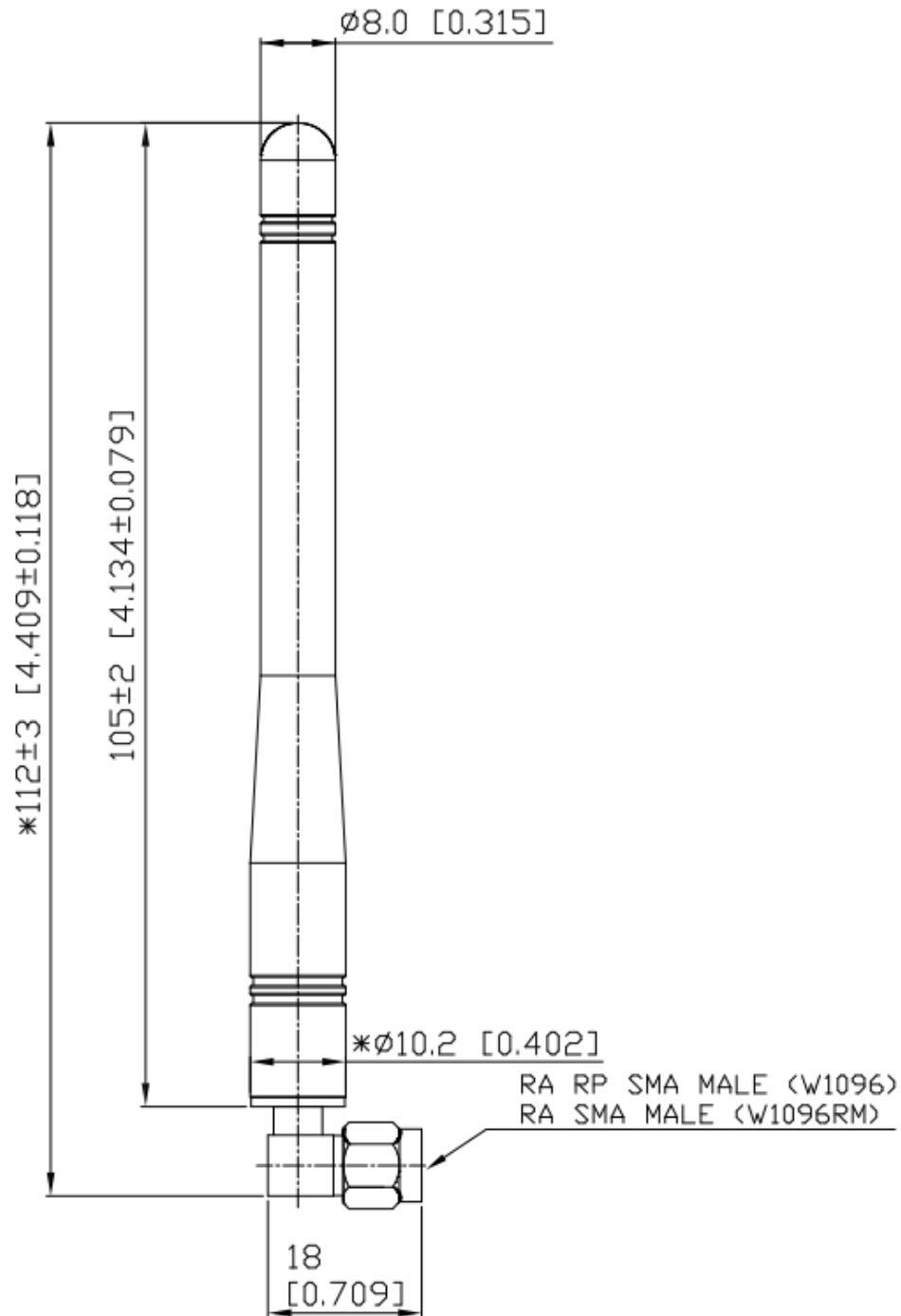
|                       |                  |
|-----------------------|------------------|
| Operating Temperature | -40 °C to +80 °C |
| Storage Temperature   | -40 °C to +80 °C |
| Ingress Protection    | IP65             |
| RoHS Compliant        | Yes              |

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**MECHANICAL DRAWING**



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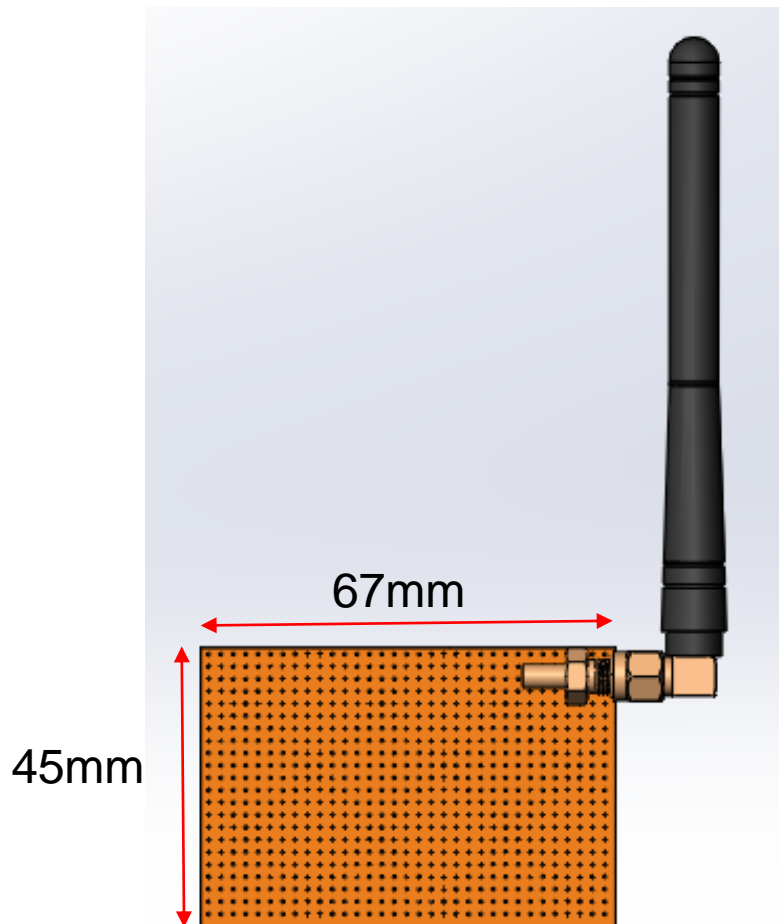
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TEST SETUP

ground plane



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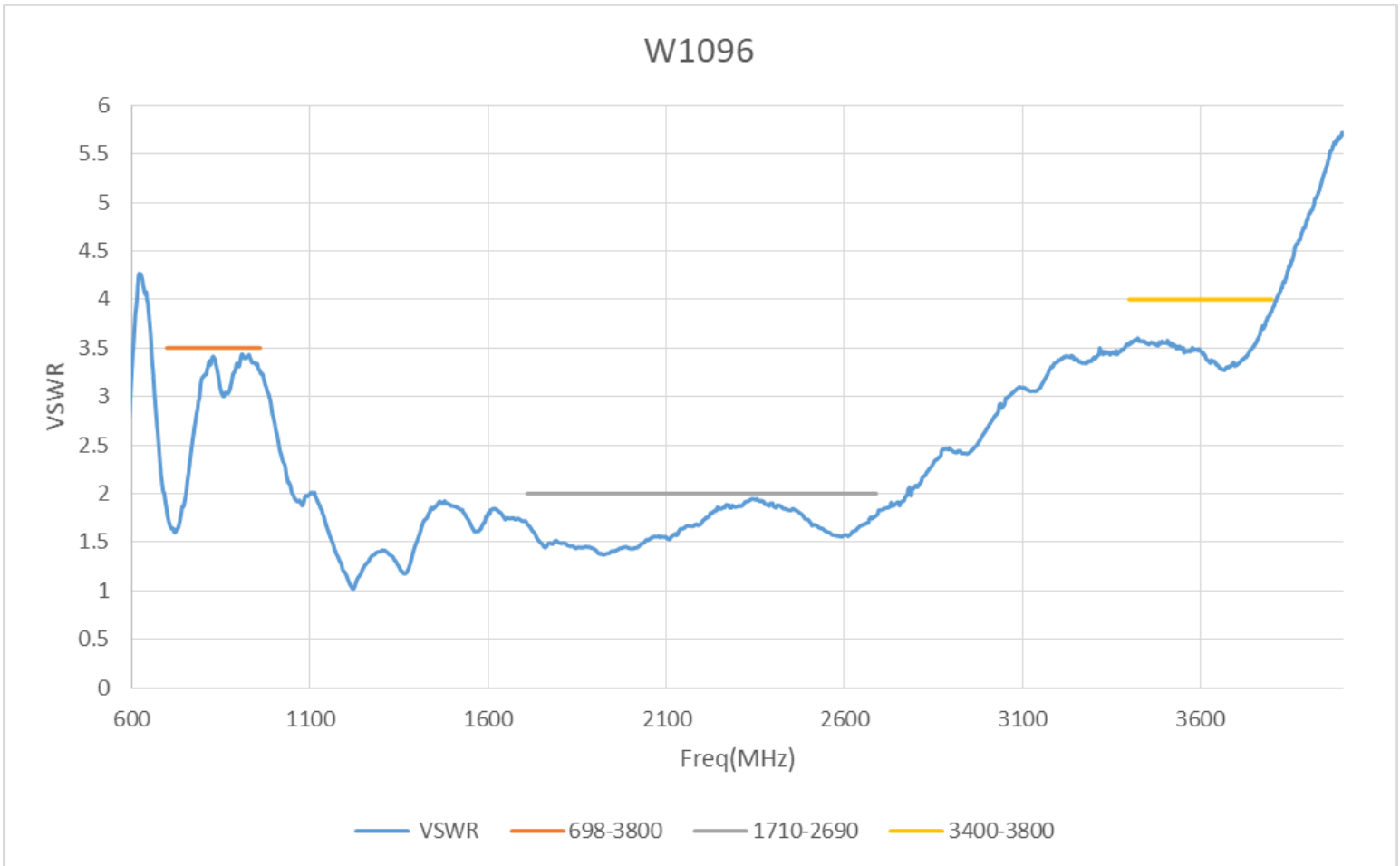
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**TEST SETUP**

VSWR:



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**Total radiated Efficiency**

Efficiency curve:



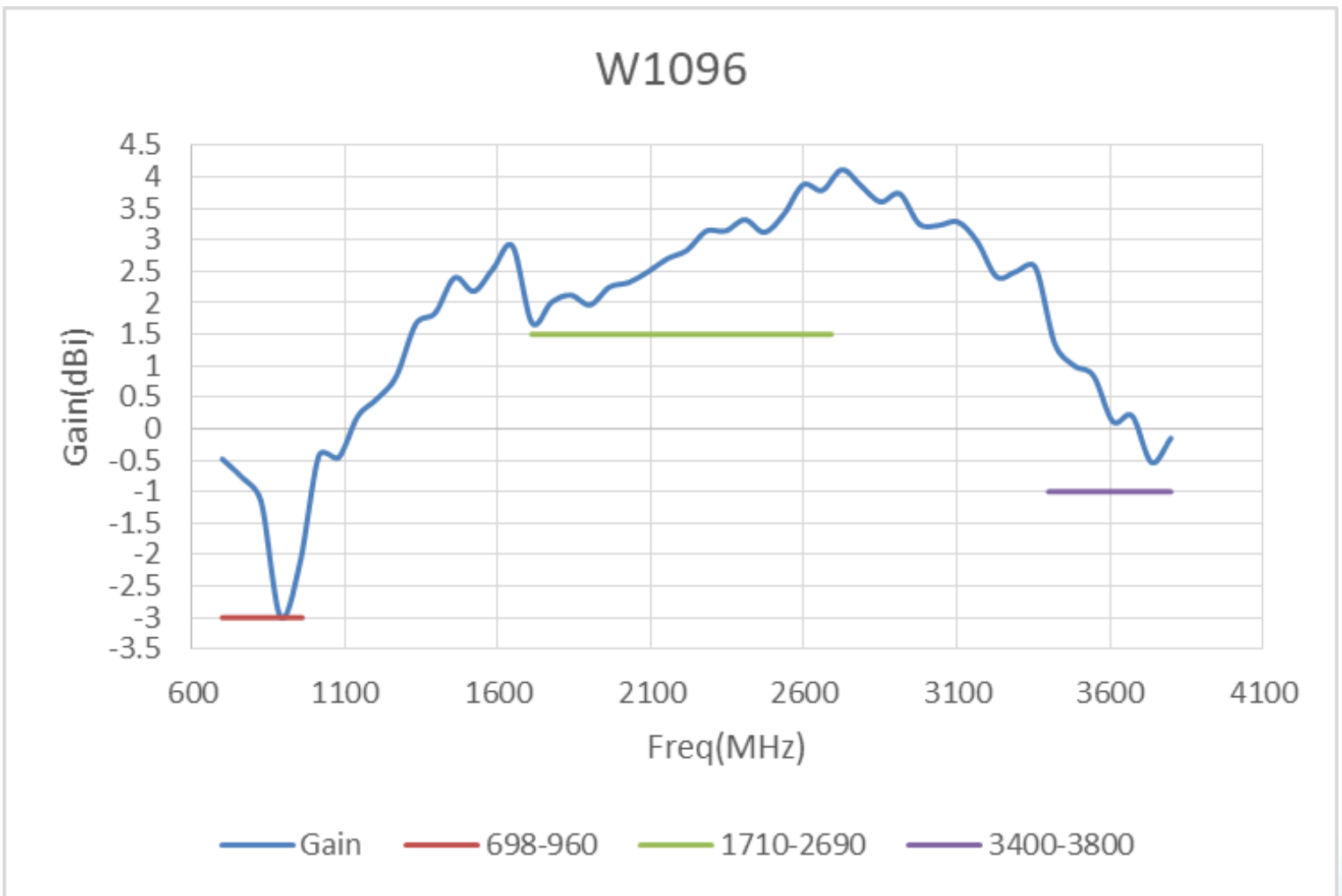
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**Maximum peak Gain**

Peak gain curve:





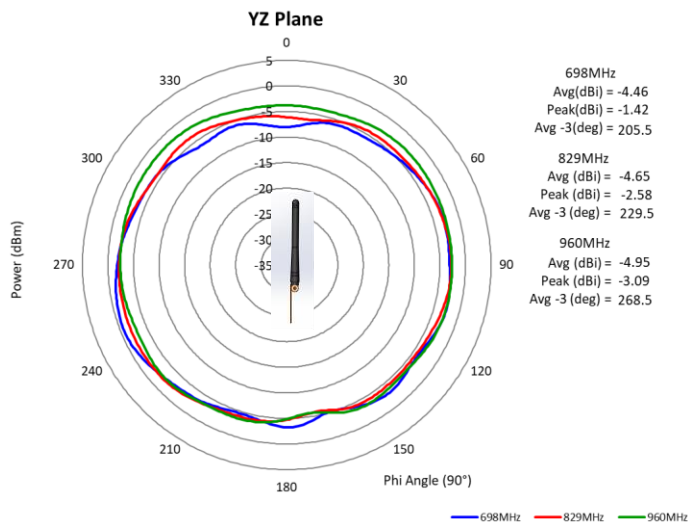
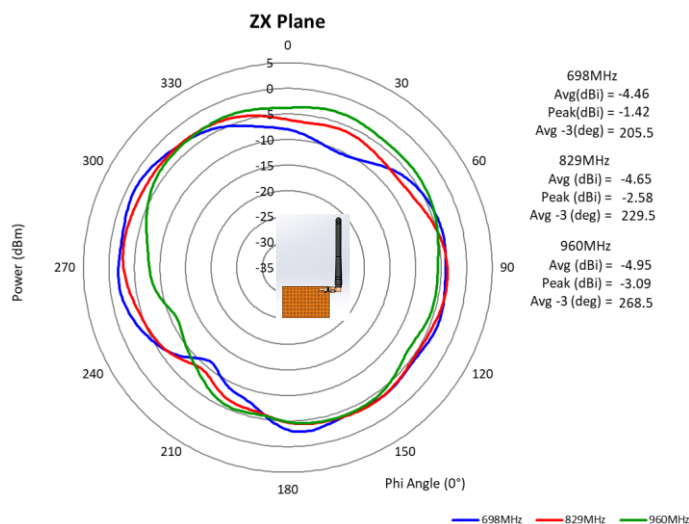
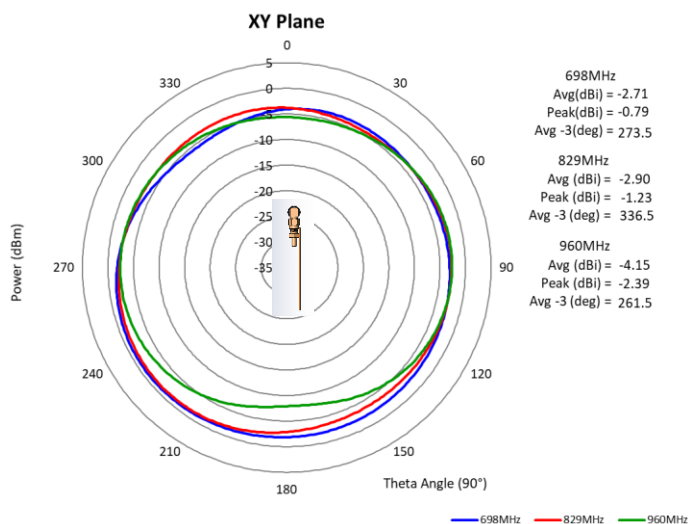
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CHARTS

Curves at 698, 829 and 960MHz :



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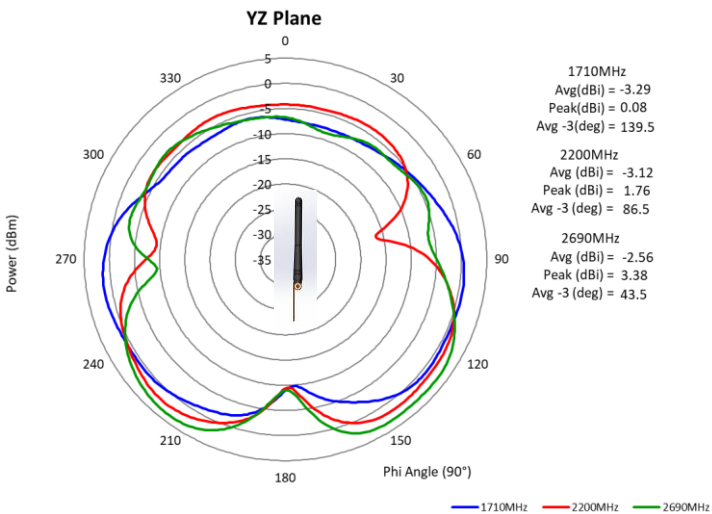
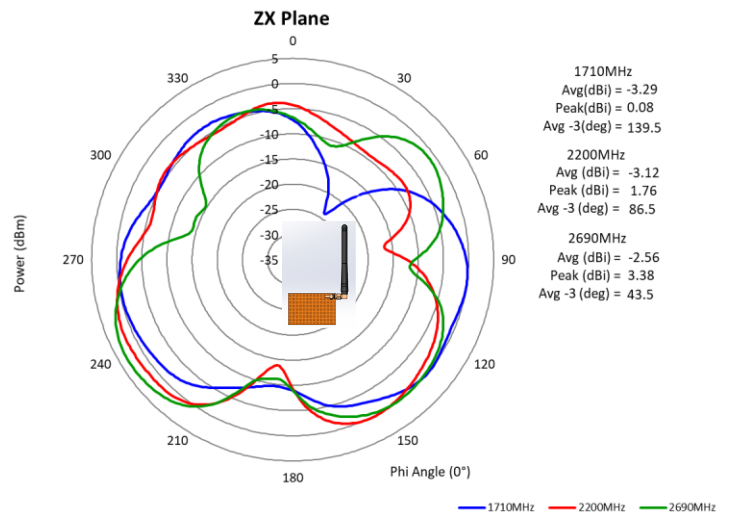
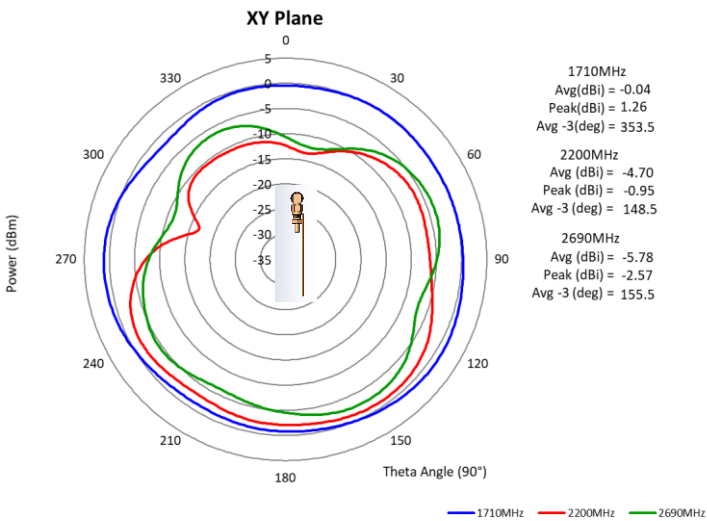
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**CHARTS**

Curves at 1710, 2200 and 2690MHz:



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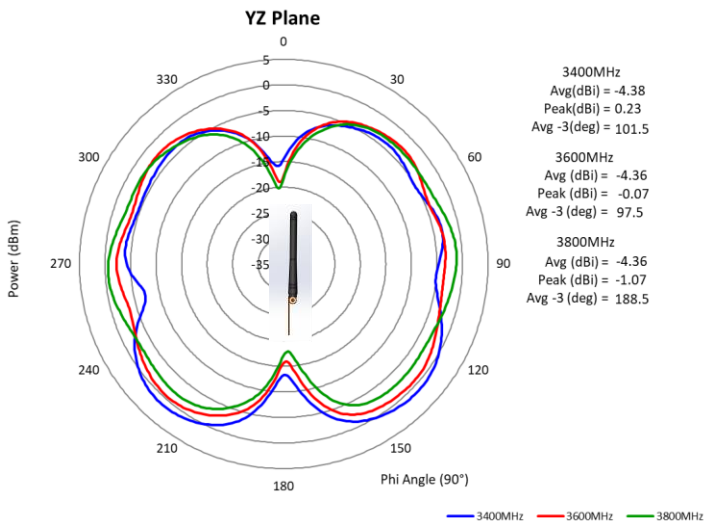
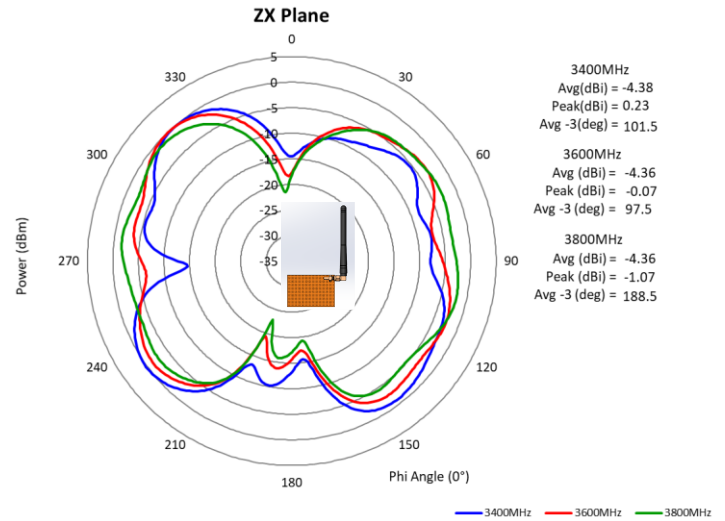
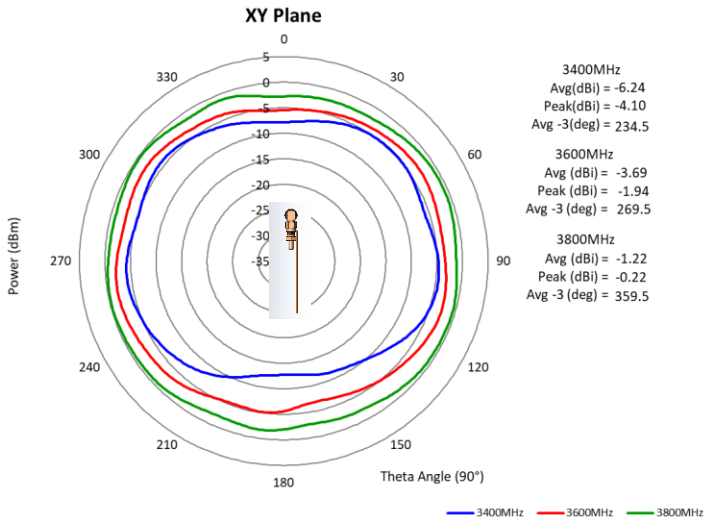
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**CHARTS**

Curves at 3400,3600 and 3800MHz :



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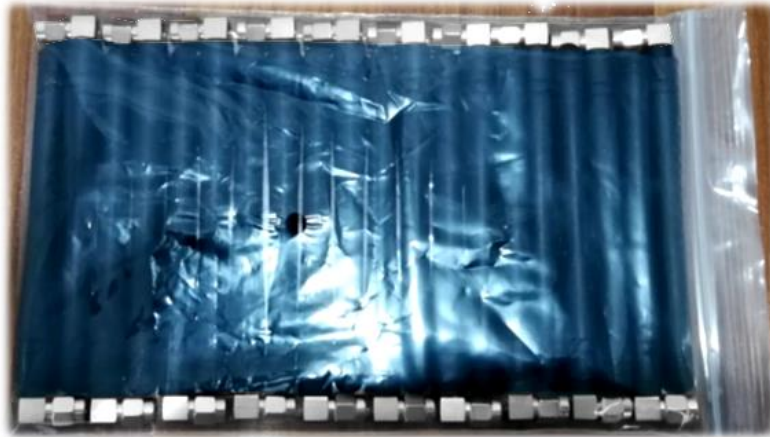
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**PACKAGING**



20pcs ants each small bag

| Item           | QTY                      |
|----------------|--------------------------|
| Each small bag | 20pcs                    |
| Each big bag   | 400pcs(20pcs small bags) |
| Each box       | 2000pcs                  |

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