

**Series: Stubby Antenna**

**Description:** 4G/5G 617-3800MHz  
Monopole Stick Antenna

**PART NUMBER:** W1696/W1697/W1696-M



W1696 / W1697



W1696-M

**Features:**

- Frequency 617-3800MHz
- Small form factor monopole
- Antenna size W x H:

W1696 / W1697 (10 x 49.6mm), IP42

W1696-M (12 x 50mm), IP65

- Connector Type:

W1696 / W1696-M SMA (male)

W1697 RP-SMA (male)

**Applications:**

- 4G LTE/LTE-A, 5G NR
- LTE CAT1M
- NBIoT
- CBRS US B48
- Gateways, Set Top boxes
- Telemetry, High speed data
- IoT and M2M solutions

All dimensions are in mm / inch

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Tel: 86 512 6807 9998



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**ELECTRICAL SPECIFICATIONS**

Frequency / MHz	617-960	1710-2690	3400-3800
Nominal Impedance		50Ω	
Return Loss / dB	<-5	<-5	<-4
Peak Gain / dBi	>-0.5	>1	>0
Efficiency	40%	45%	30%
Radiation Pattern		Omni	
Polarization		Linear	
Power withstanding		5W	

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### MECHANICAL SPECIFICATIONS

Weight	W1696 / W1697: 7.5g W1696-M: 7.8g
Antenna Color	Black
Connector type	W1696 / W1696-M SMA(Male) W1697 RP-SMA(Male)

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30/+85 ° C
Storage Temperature	-30/+85 ° C
Ingress Protection	IP65 (W1696-M) IP42 (W1696 and W1697)
RoHS Compliant	Yes

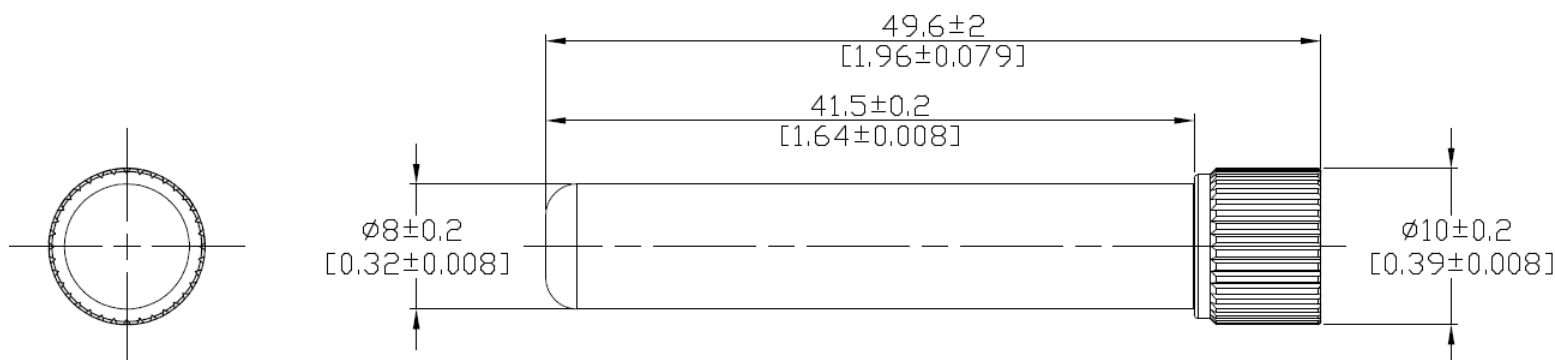
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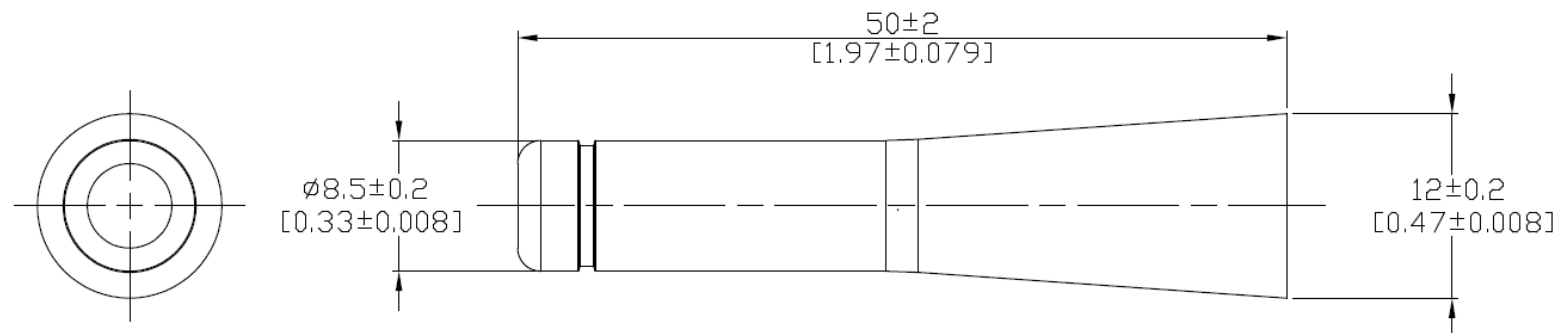
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**MECHANICAL DRAWING**

**W1696 / W1697**



**W1696-M**

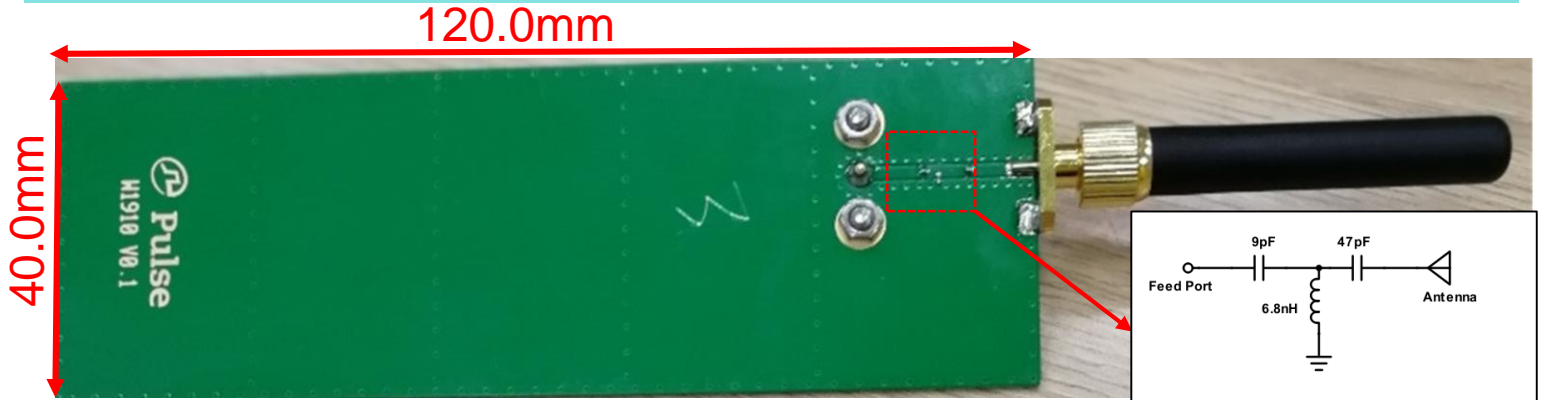


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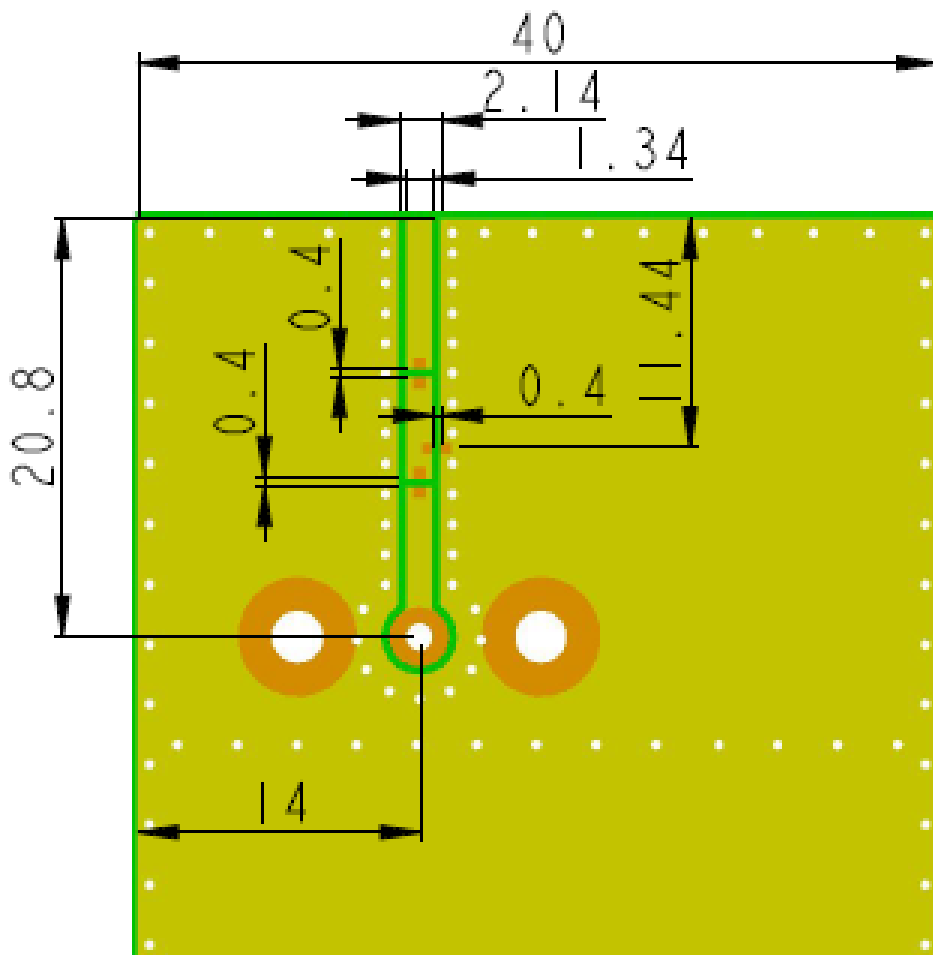
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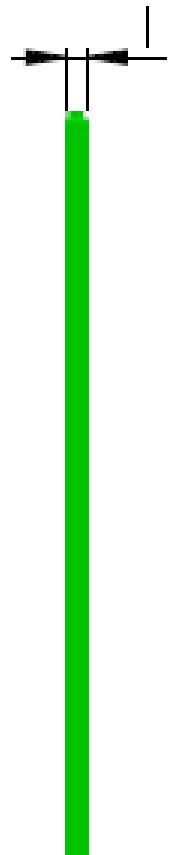
**TEST SETUP**



#Test on 40.0\*120.0mm ground plane with matching circuit.



Unit: mm



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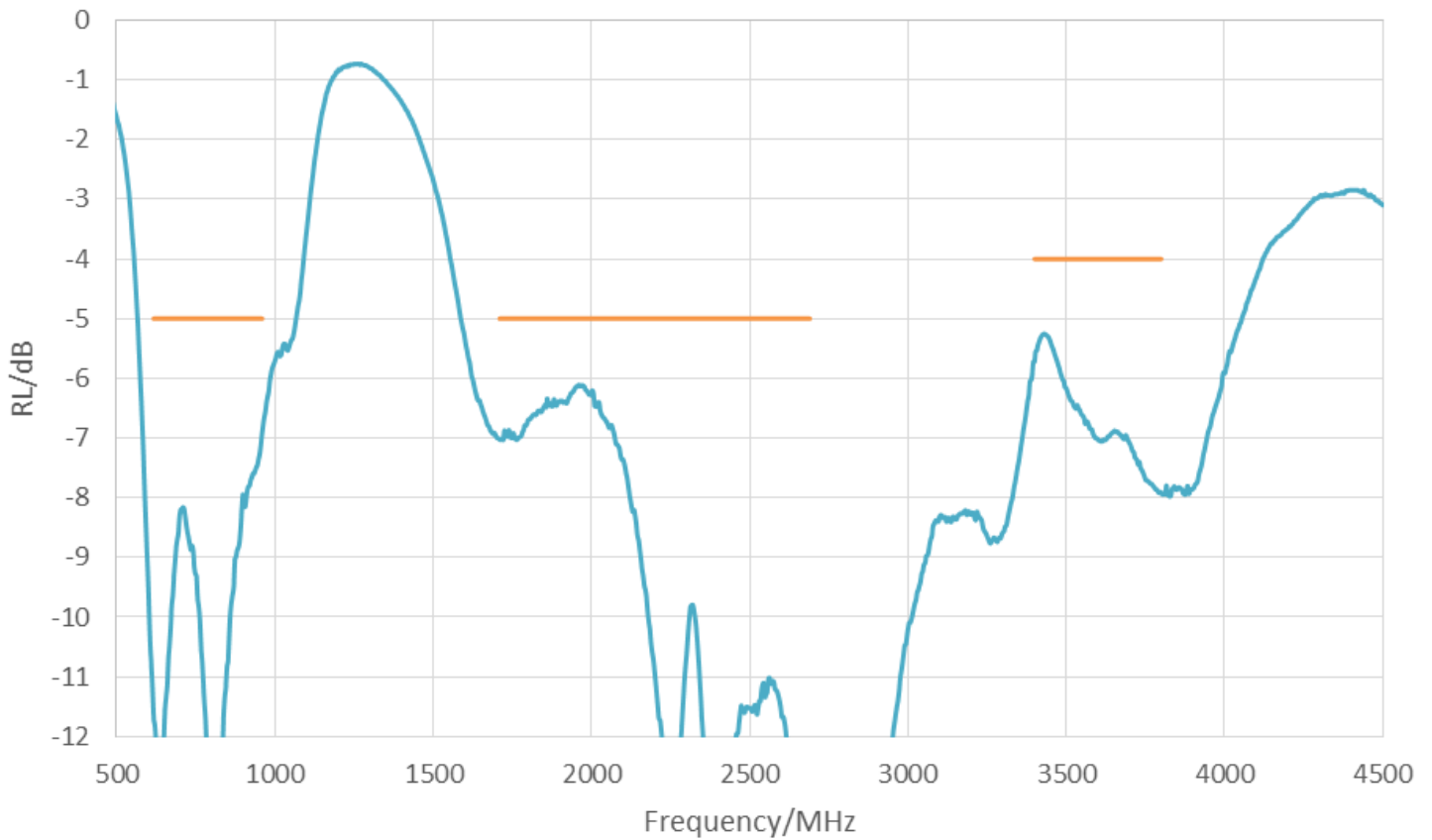
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**CHARTS**

**Return Loss vs Frequency**



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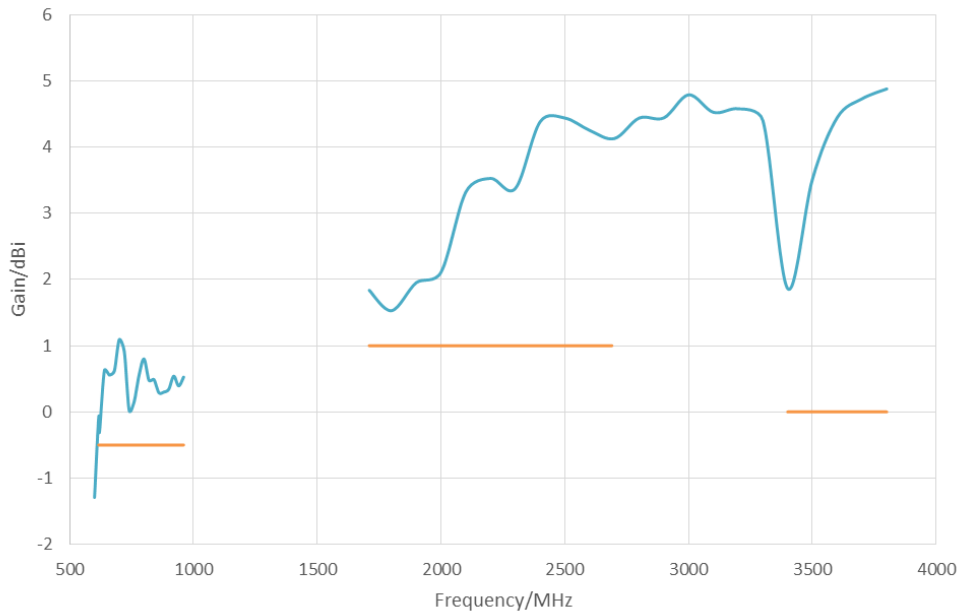
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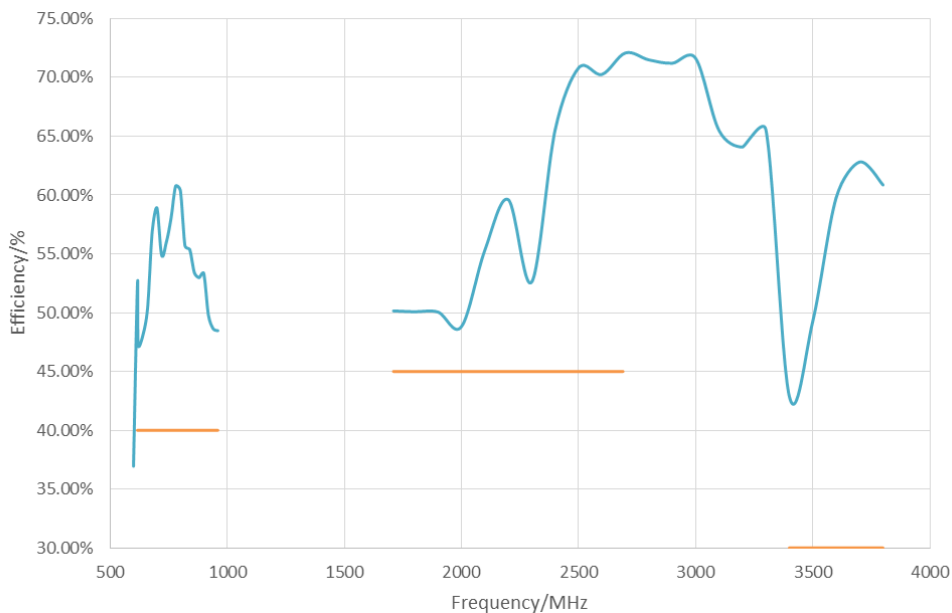
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**CHARTS**

**Peak Gain vs Frequency**



**Radiation Efficiency vs Frequency**



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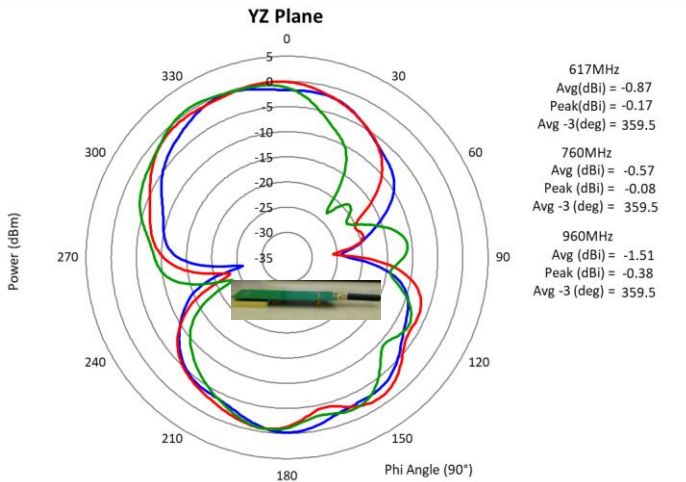
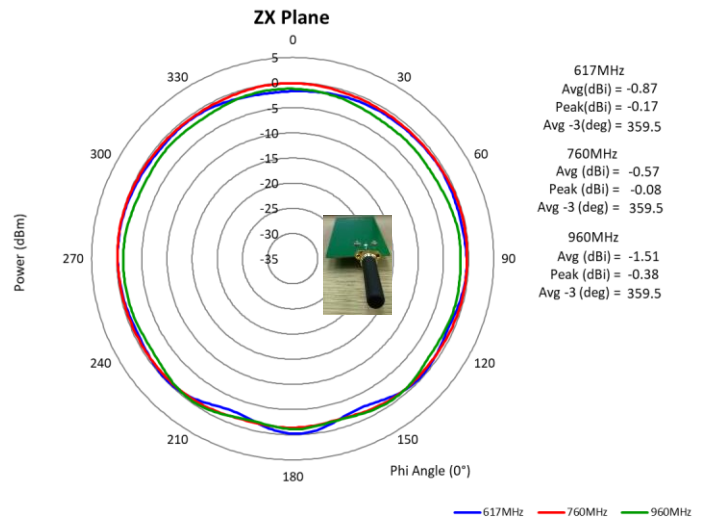
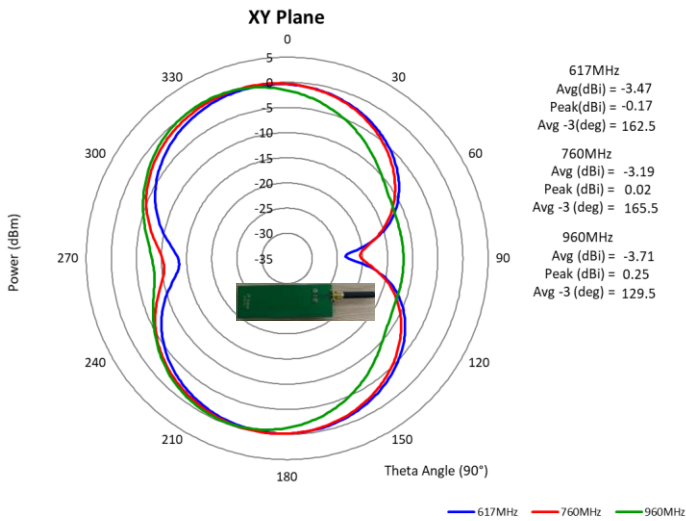
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**CHARTS**

**Free Space Radiation Pattern(617-960MHz)**



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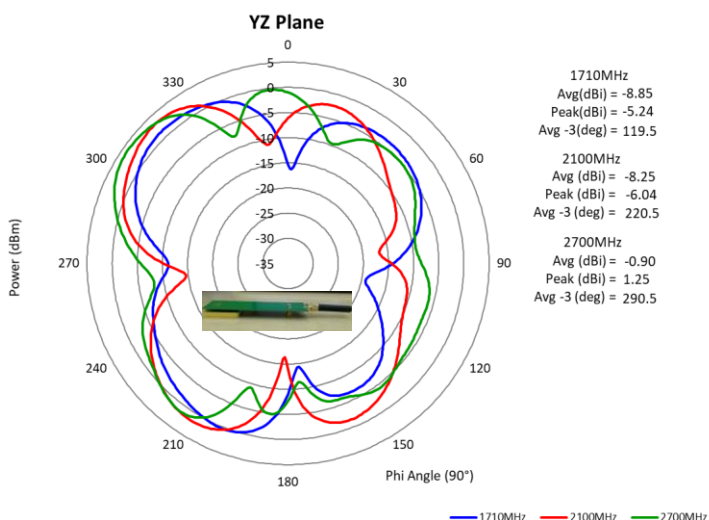
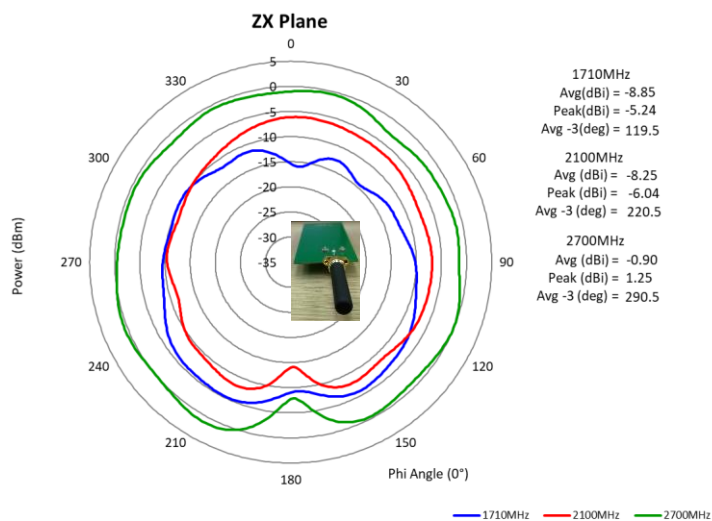
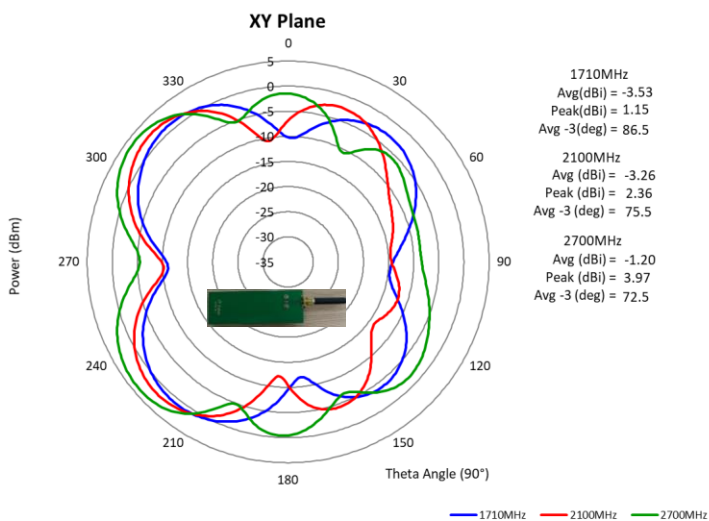
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**CHARTS**

**Free Space Radiation Pattern(1710-2690MHz)**



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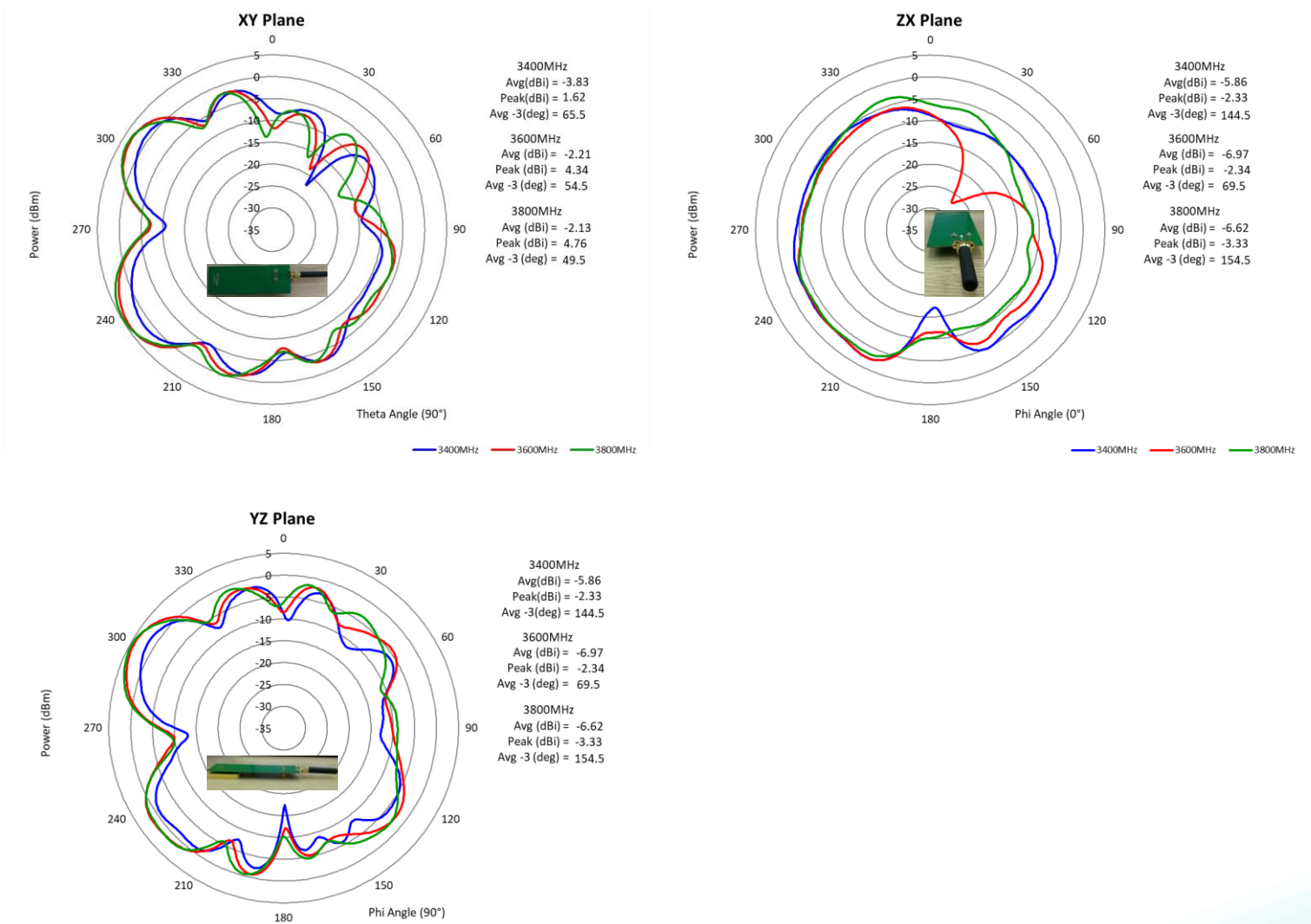
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**CHARTS**

**Free Space Radiation Pattern(3400-3800MHz)**



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## PACKAGING

1pcs antenna per PE bag

24pcs PE bags per tray

14pcs trays per package box(2 pcs empty tray)

288pcs antenna per package

Package box: 460mm\*235mm\*140mm



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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