

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

Issue: 1924

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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For more information:

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Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
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Pulse (Suzhou) Wireless Products Co, Inc.
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Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
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

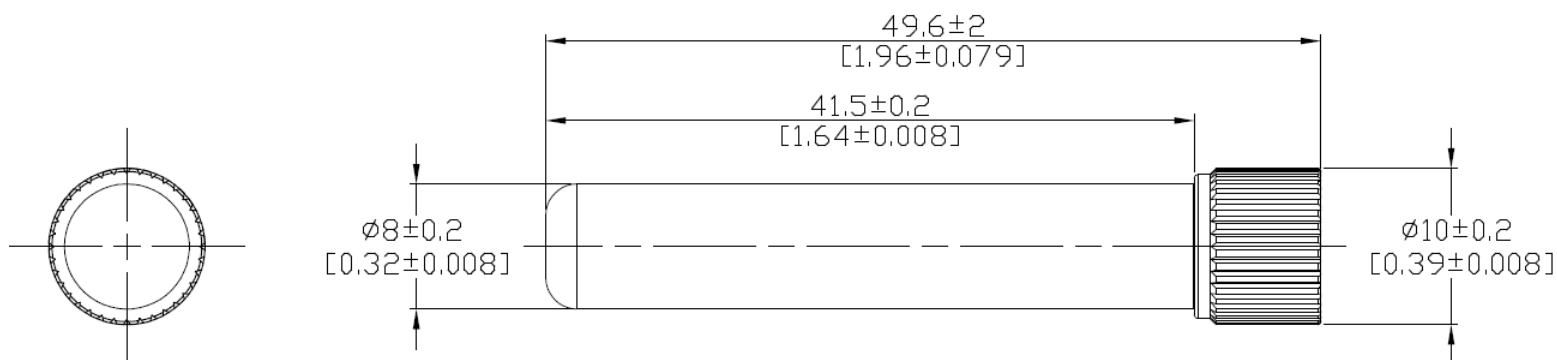
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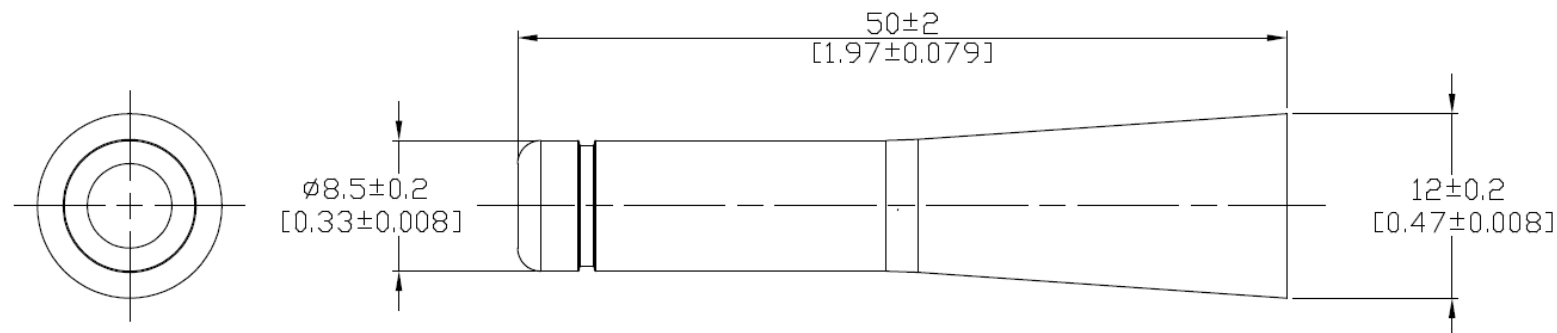
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MECHANICAL DRAWING

W1696 / W1697



W1696-M



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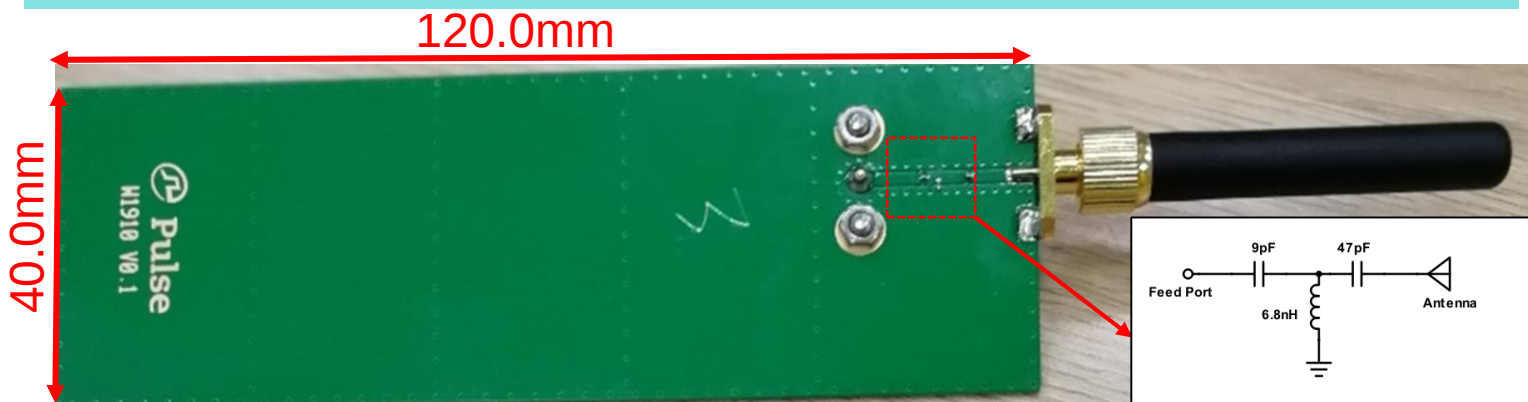
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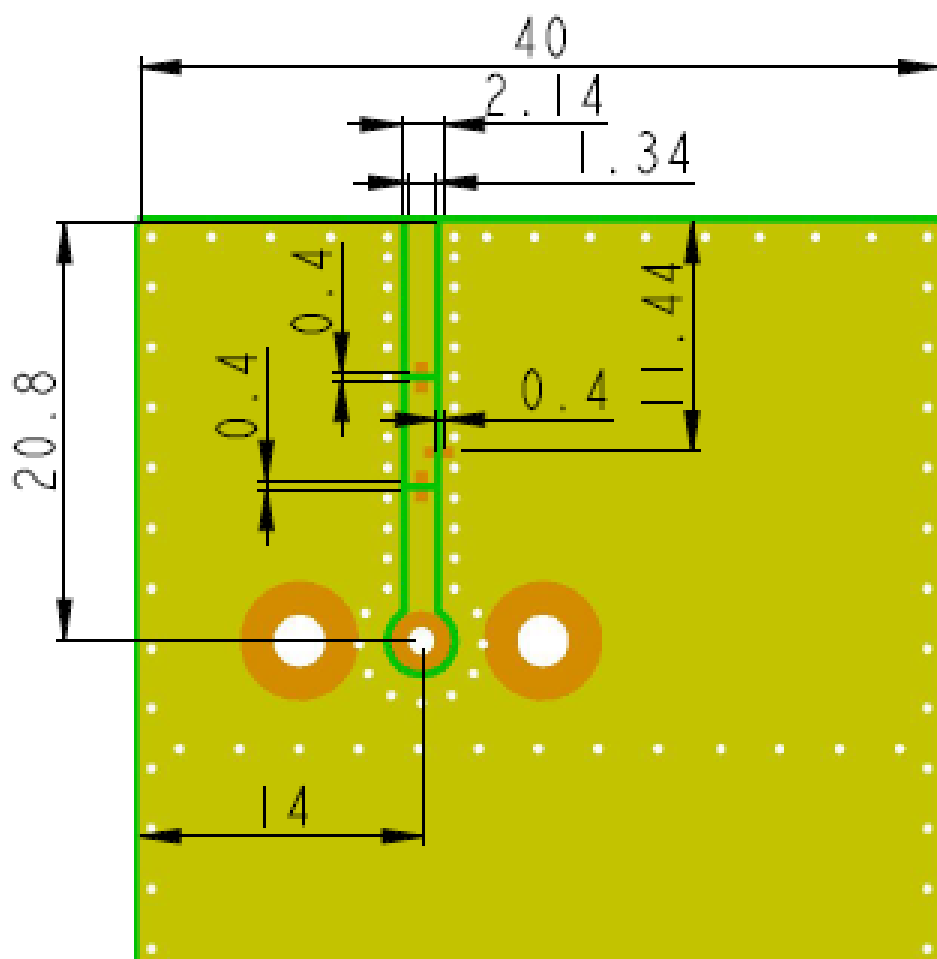
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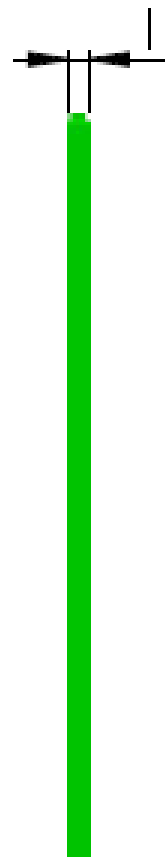
TEST SETUP



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



Unit: mm



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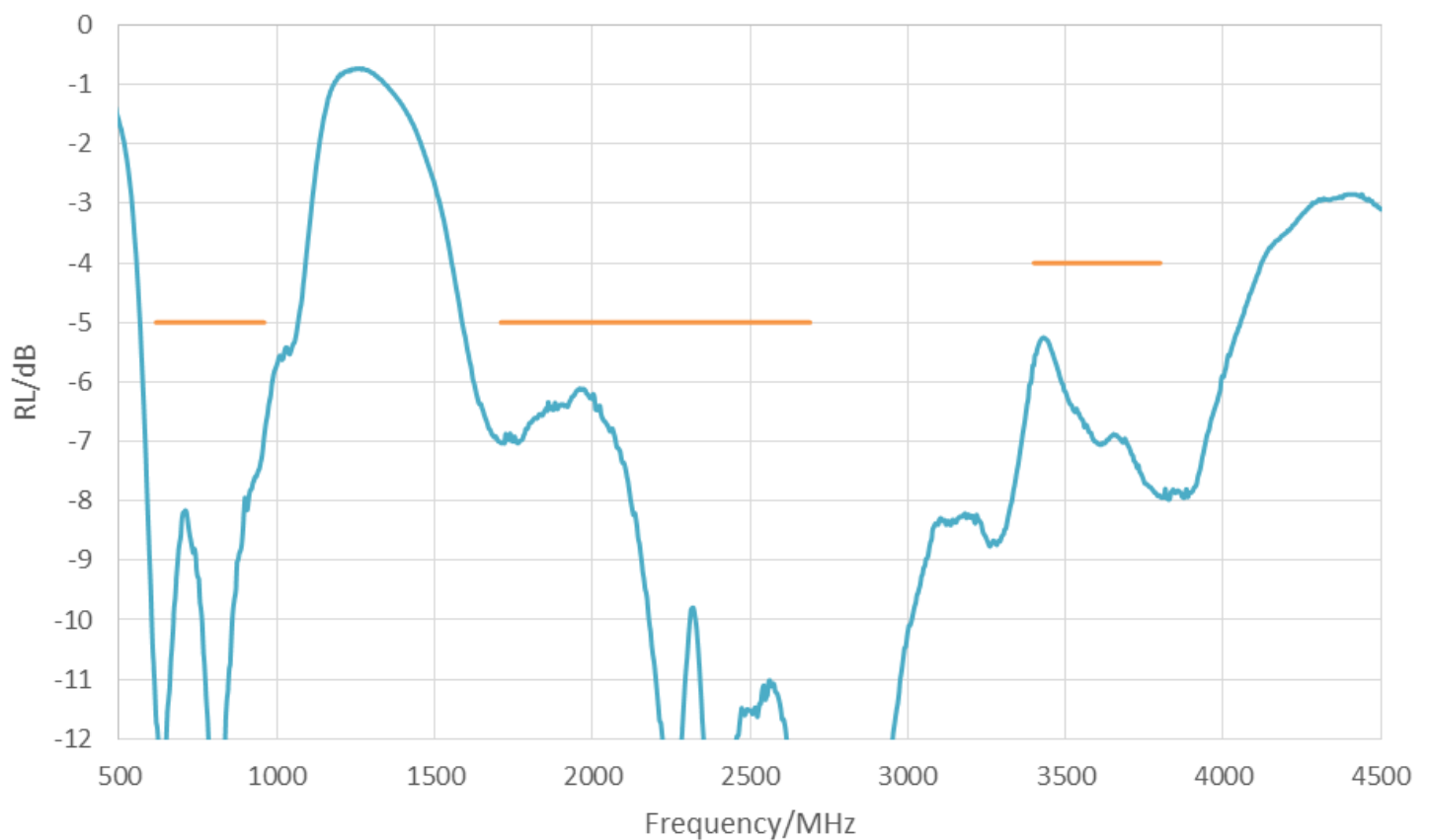
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CHARTS

Return Loss vs Frequency



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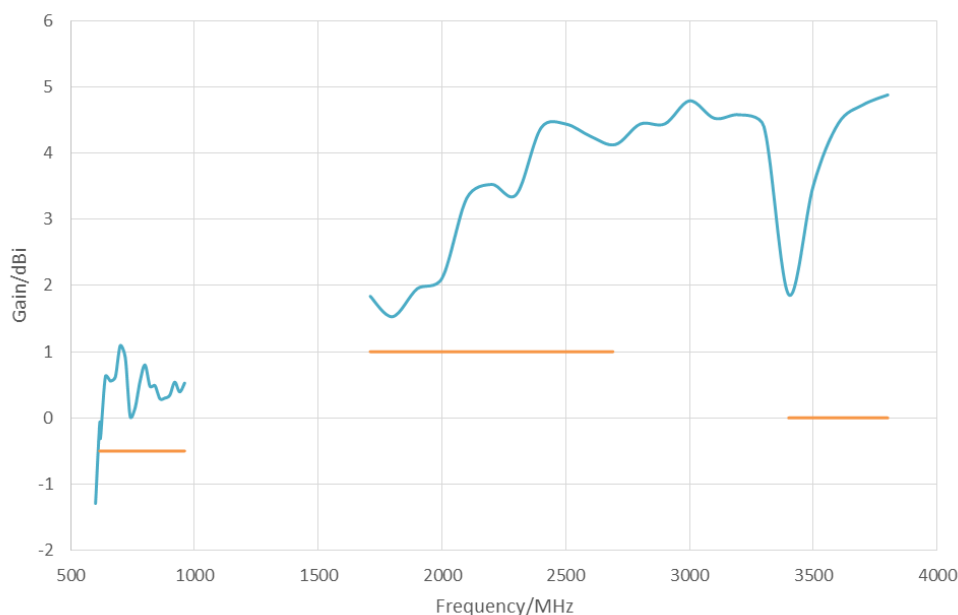
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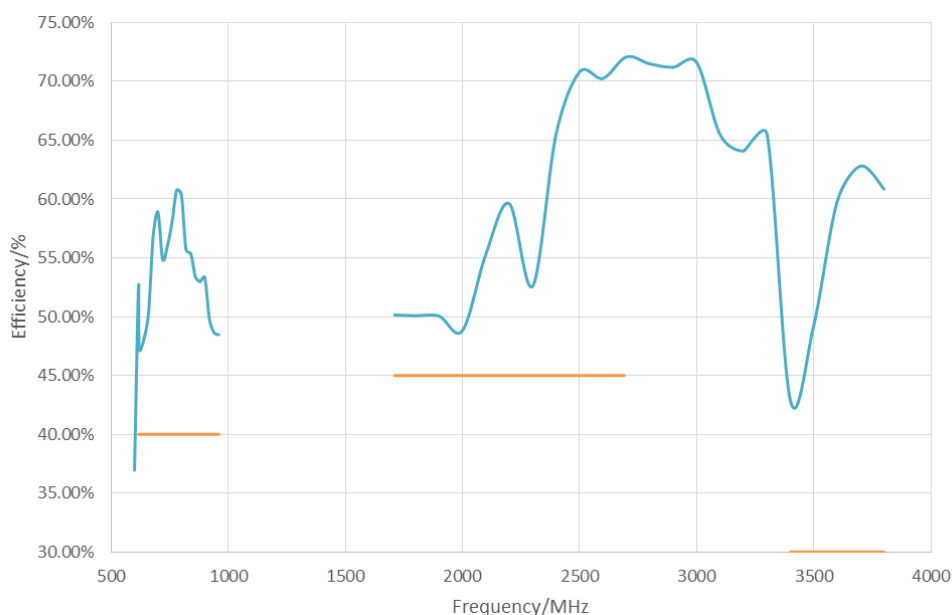
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CHARTS

Peak Gain vs Frequency



Radiation Efficiency vs Frequency



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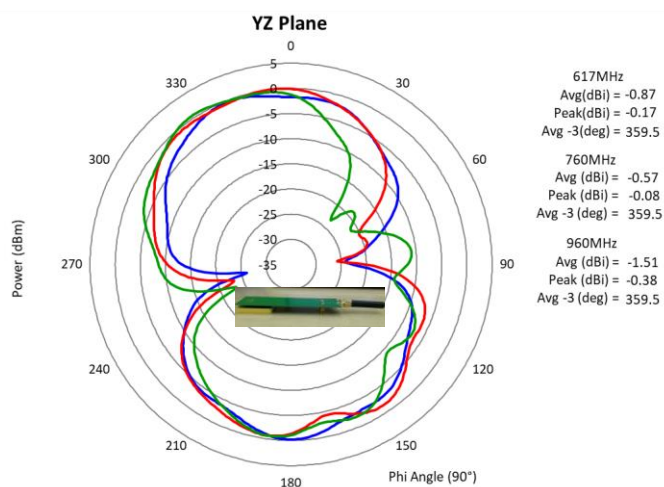
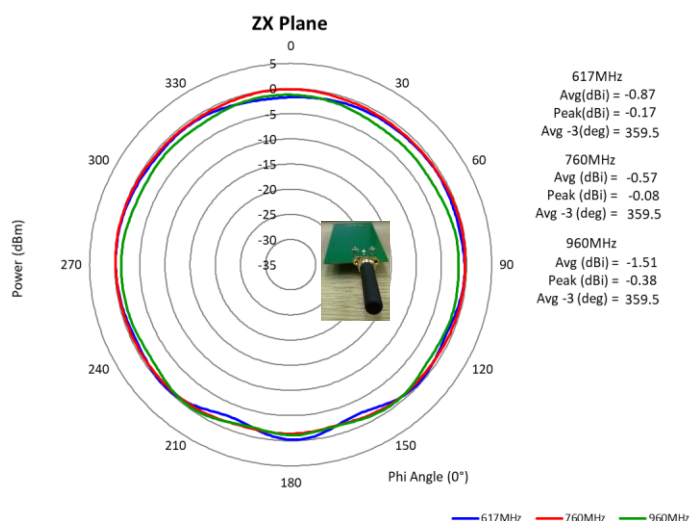
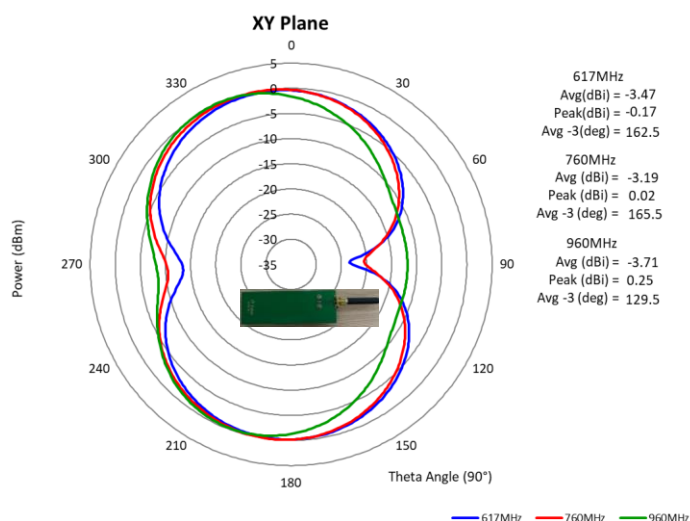
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CHARTS

Free Space Radiation Pattern(617-960MHz)



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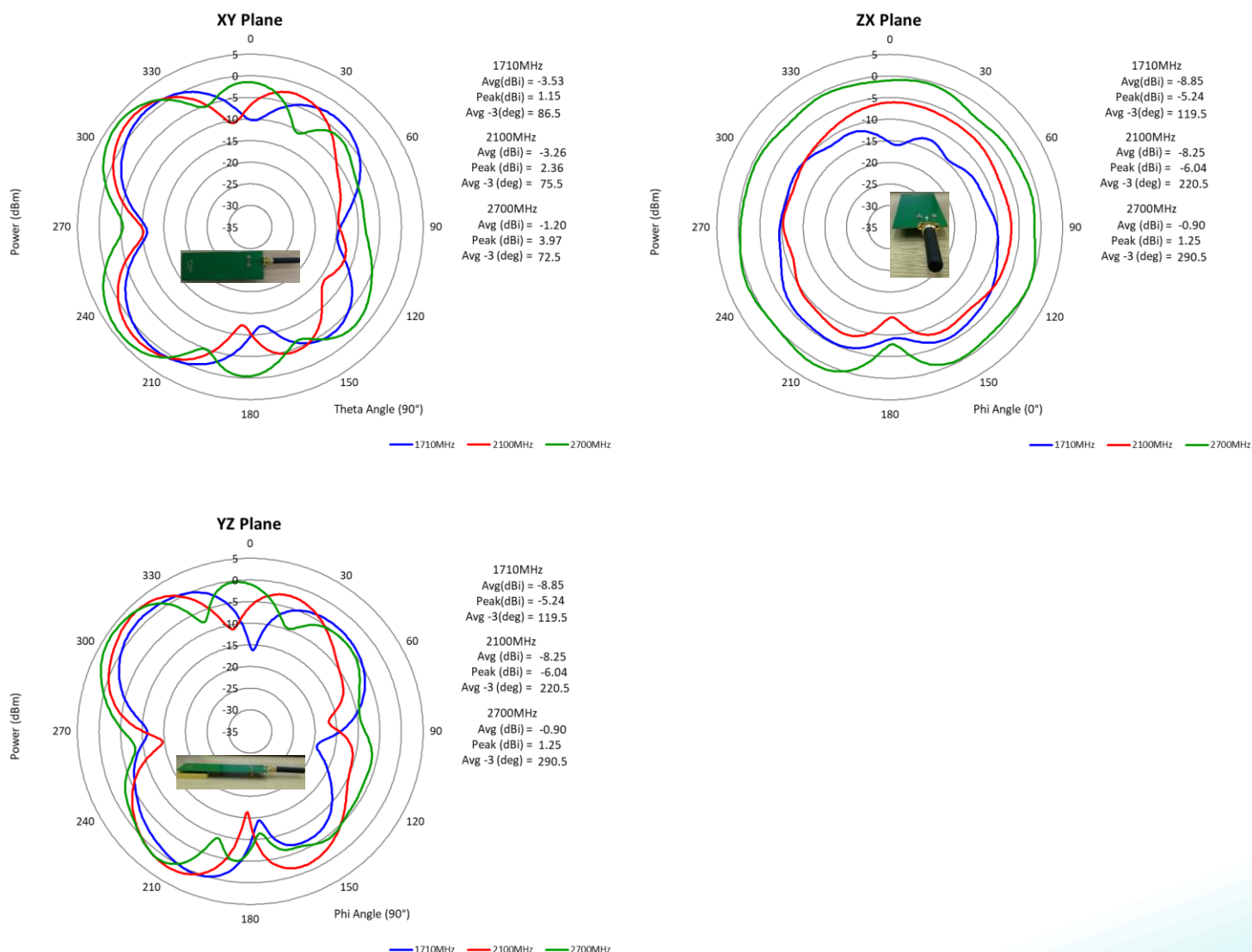
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Free Space Radiation Pattern(1710-2690MHz)



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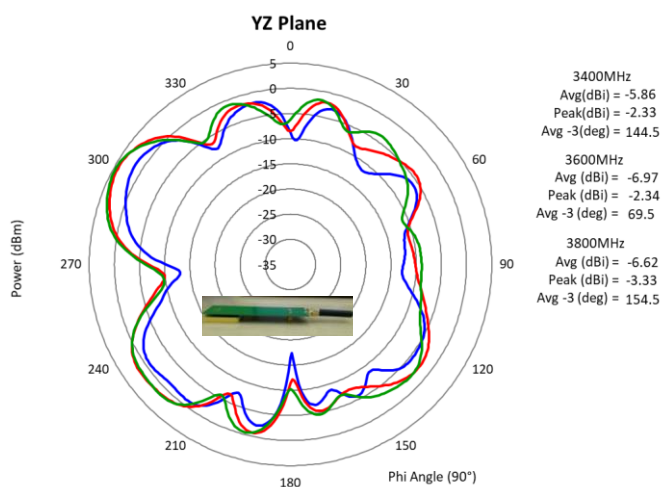
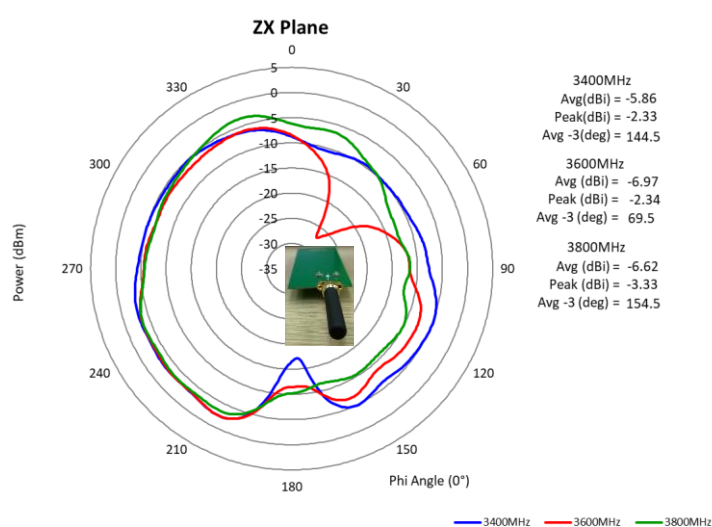
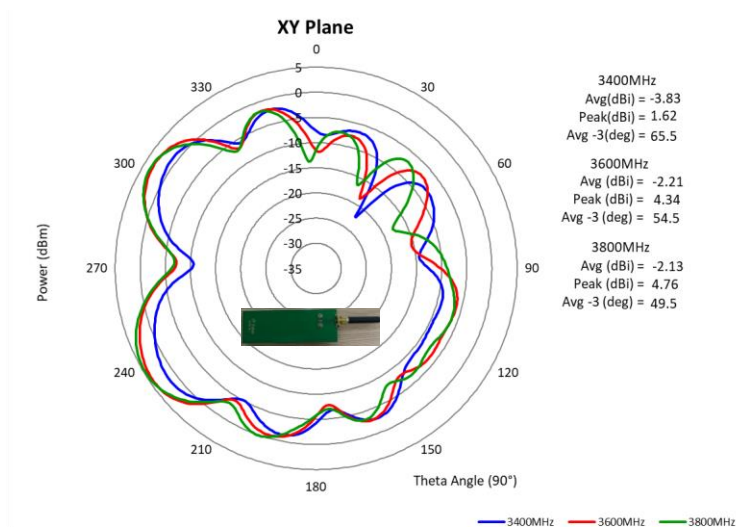
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CHARTS

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