



W1900/W1902

**Features:**

- Small form factor monopole
- Antenna size W x L x H  
W1900/W1902 (18.4 x 8.0 x 49.5mm)  
W1900-M (22 x 11.4 x 50.5mm)
- Lead free materials
- RoHS Compliant Product
- Connector Type:  
W1900/W1900-M SMA (male)  
W1902 RP-SMA (male)



W1900-M

**Applications:**

- Penta band EU/US GSM/WCDMA
- Frequency range:  
850 / 900 / 1800 / 1900/ 2100 MHz
- M2M Applications

All dimensions are in mm

Issue: 1715

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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Europe Headquarters  
Pulse GmbH & Do, KG  
Zeppelinstrasse 15  
Herrenberg, Germany  
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.  
99 Huo Ju Road(#29 Bldg,4<sup>th</sup> Phase  
Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998



Series: Stubby Antenna

Description: 3G Pentaband 824-2170MHz,  
Right angle

PART NUMBER: W1900/W1902/W1900-M

## ELECTRICAL SPECIFICATIONS

Frequency	824-960MHz 1710-2170MHz
Nominal Impedance	50Ω
Return Loss	-4dB 824-960MHz -6dB 1710-2170MHz
Peak Gain	1dBi 824-960MHz 2dBi 1710-2170MHz
Efficiency	52%
Radiation Pattern	Omni
Polarization:	Linear
Power withstanding	5W

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### MECHANICAL SPECIFICATIONS

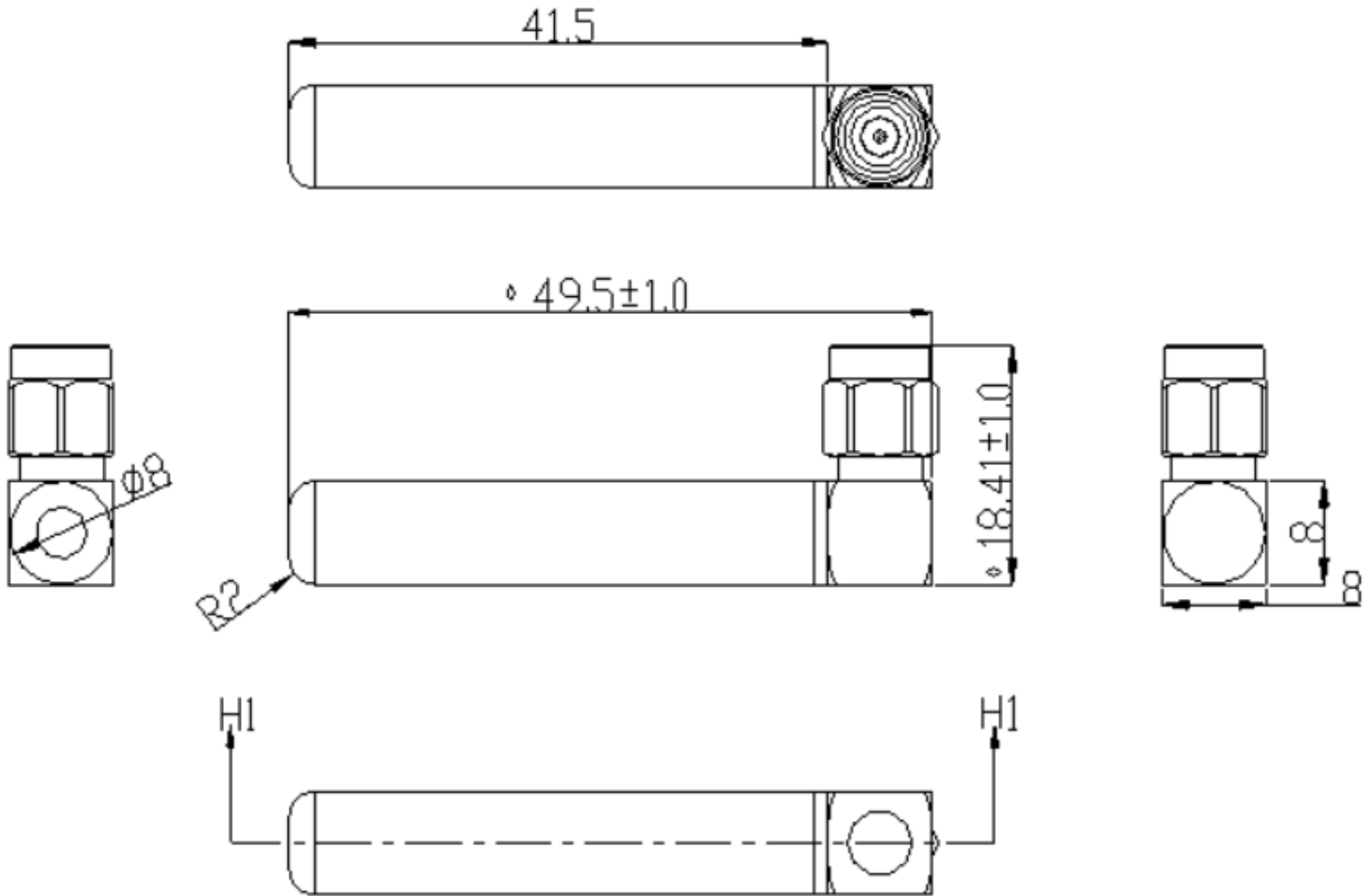
Weight	W1900/W1902 11.07g W1900-M 11.1g
Antenna Color / Material	Black
Connector type	W1900/W1900-M SMA(Male) W1902 RP-SMA(Male)

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30/+75 ° C
Storage Temperature	-30/+75 ° C
Ingress Protection	IP65(W1900-M)
Wind-loading	100km/h
RoHS Compliant	Yes

MECHANICAL DRAWING

W1900/W1902



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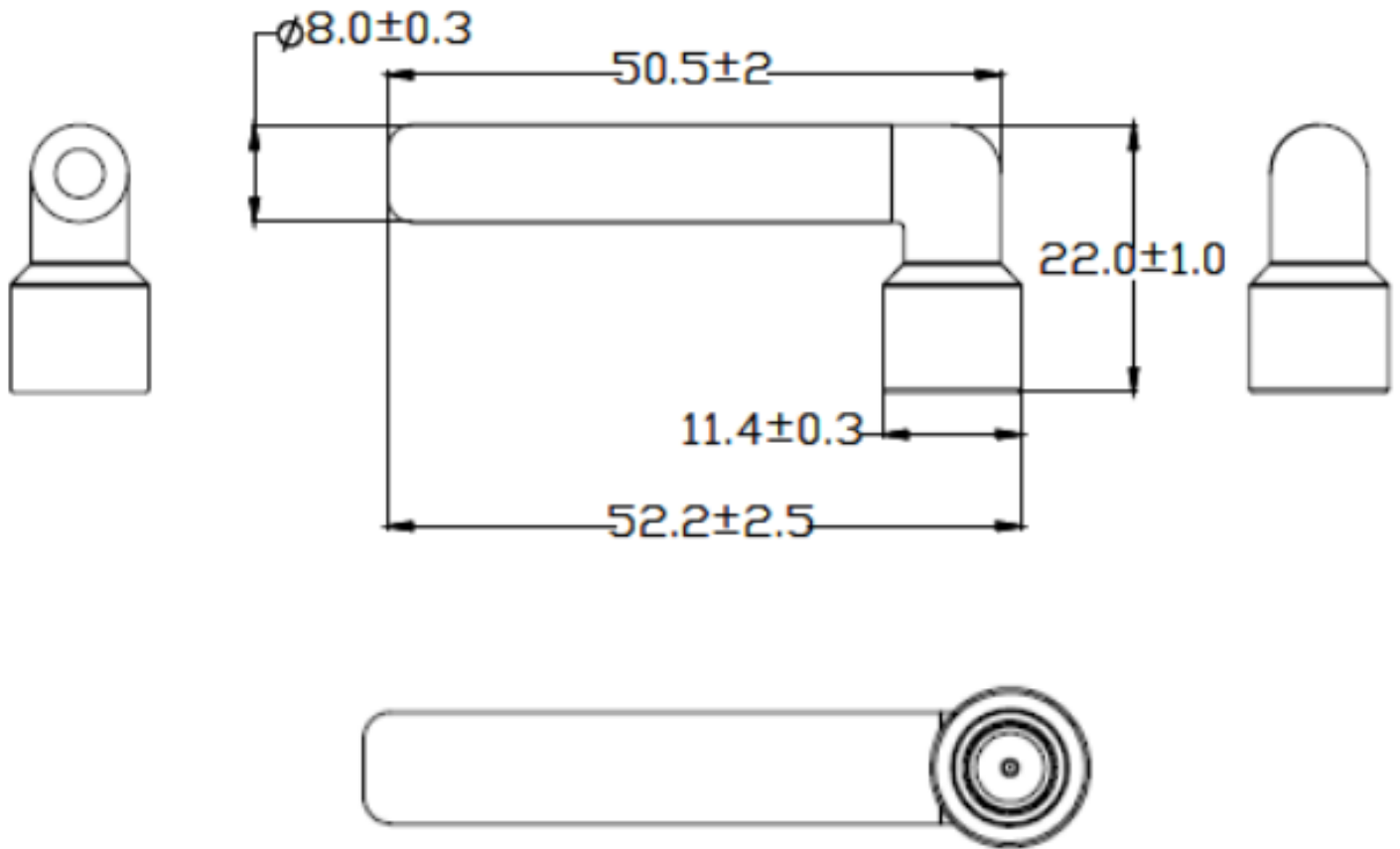
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MECHANICAL DRAWING

W1900-M



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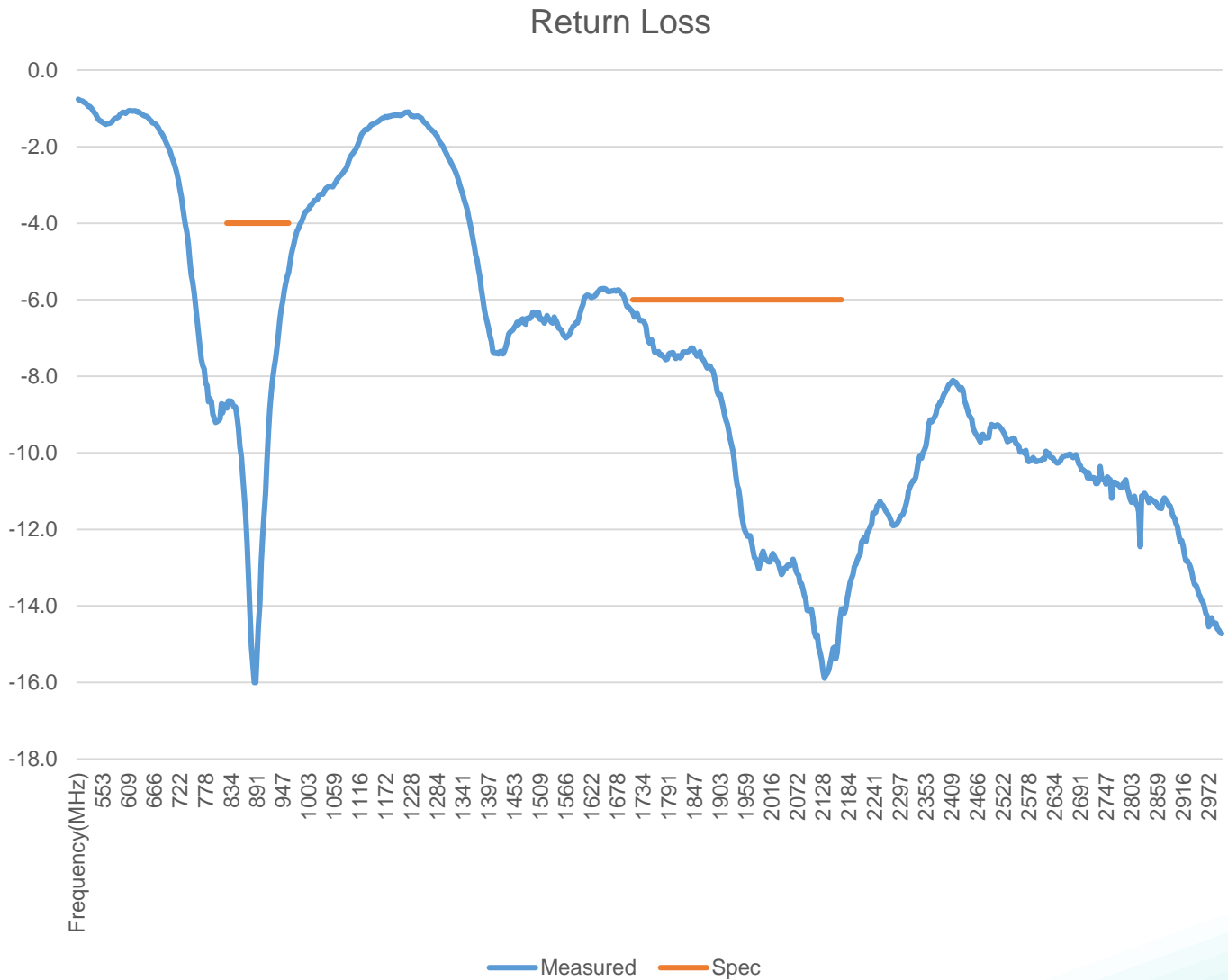
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CHARTS

Return Loss



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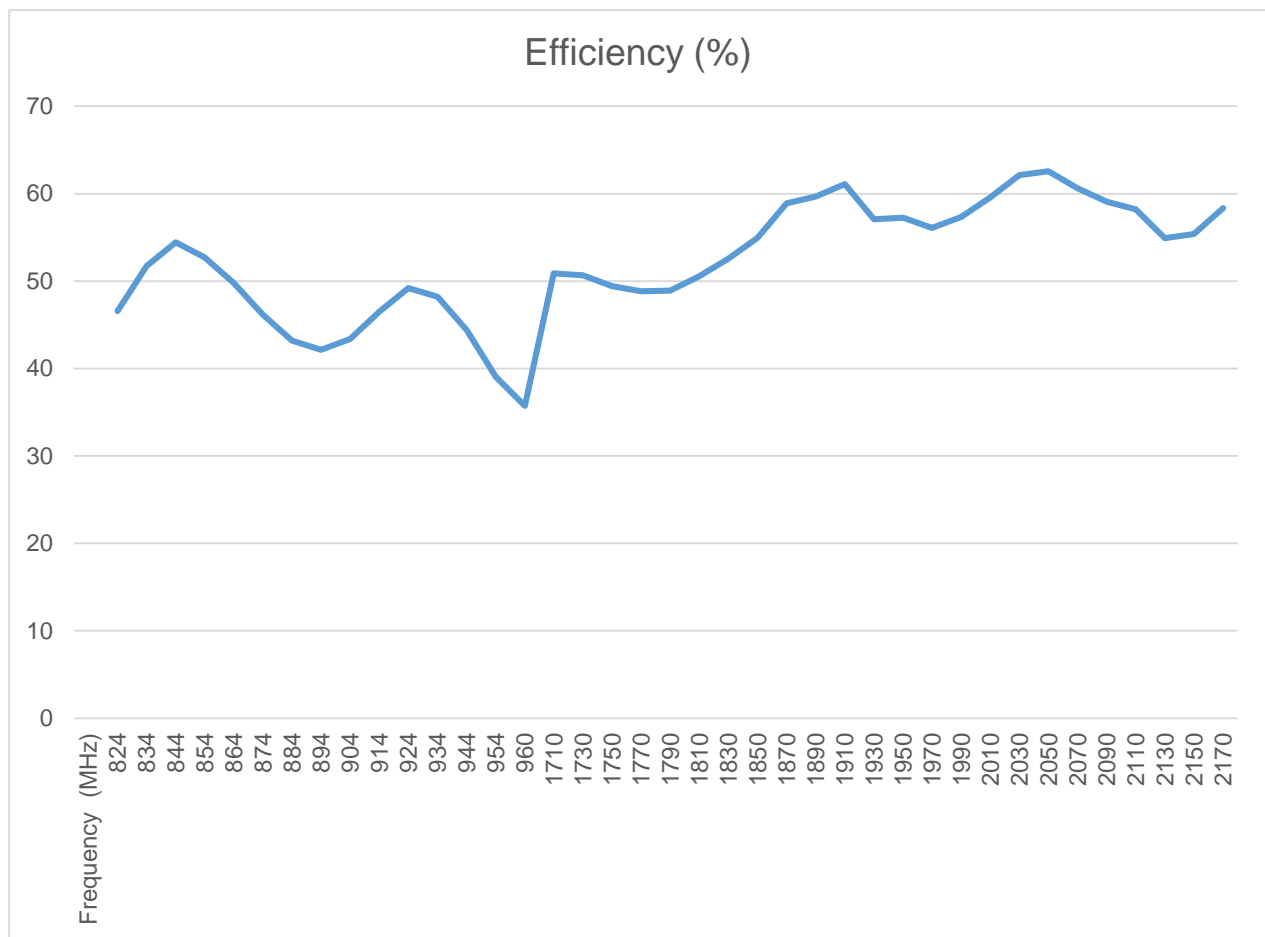
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CHARTS

Efficiency(%)



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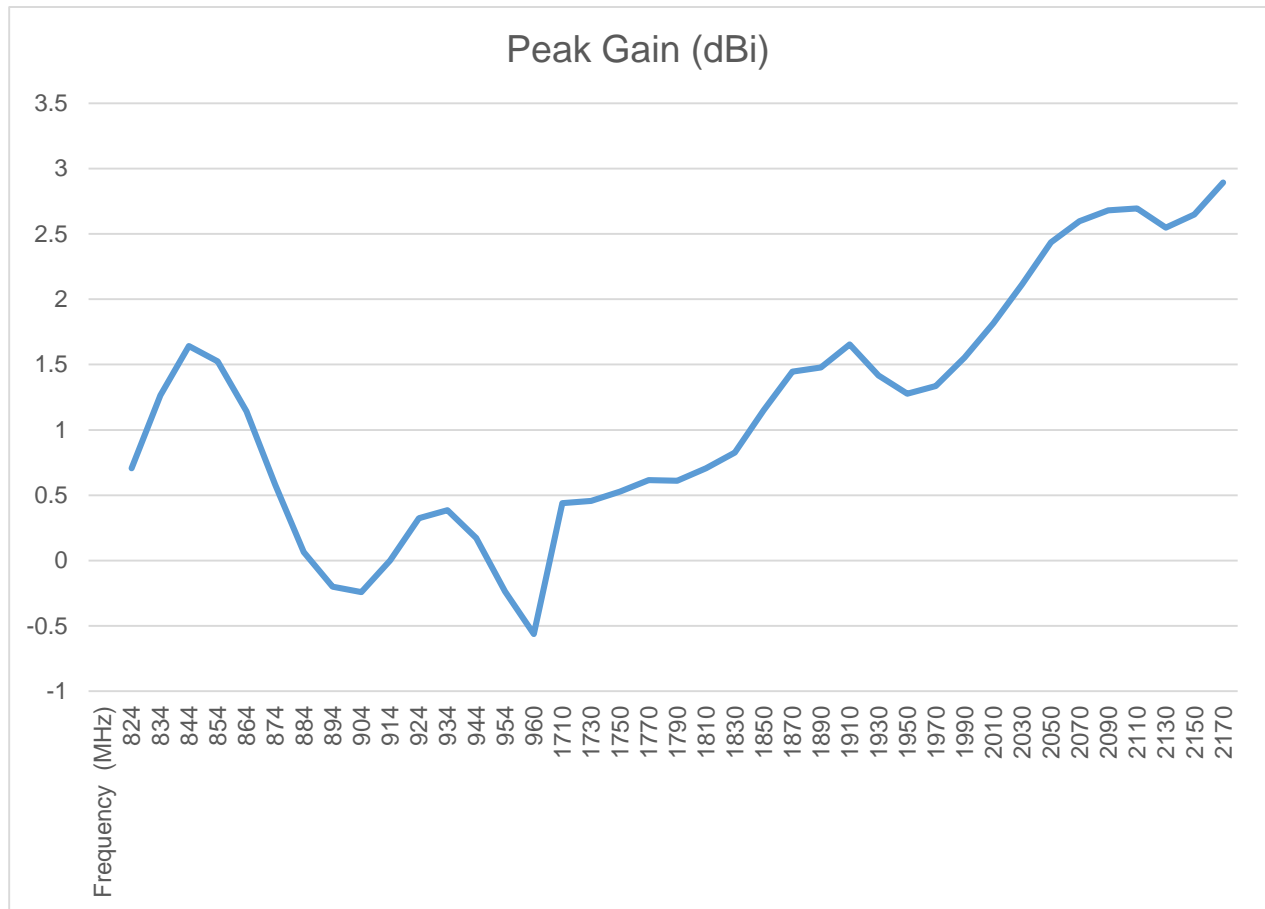
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CHARTS

Peak Gain (dBi)



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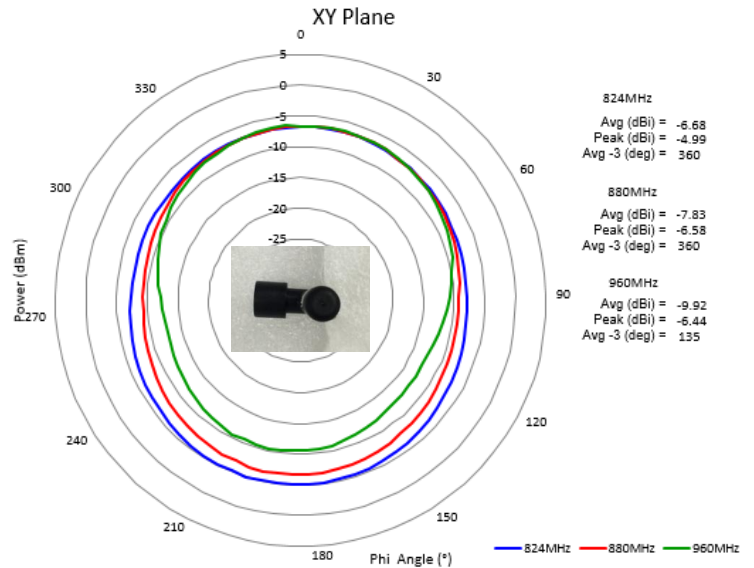
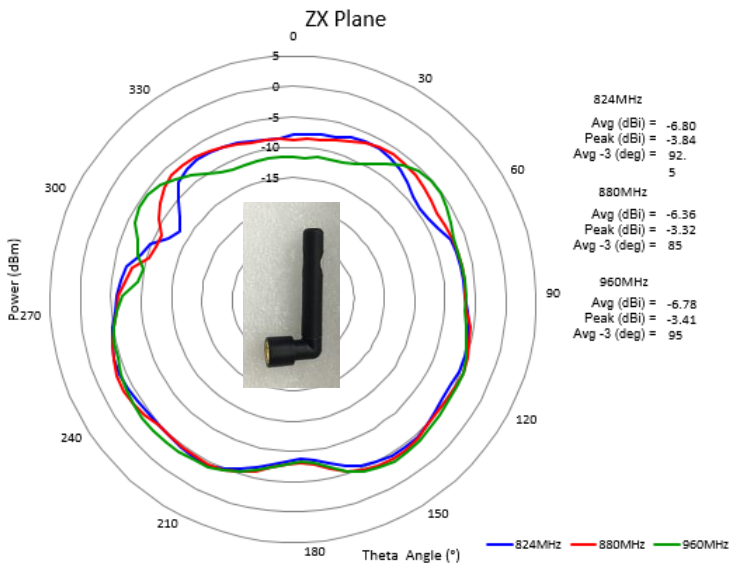
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**CHARTS**

**Free Space Radiation Pattern**

**Elevation Plane**

**Horizontal Plane**



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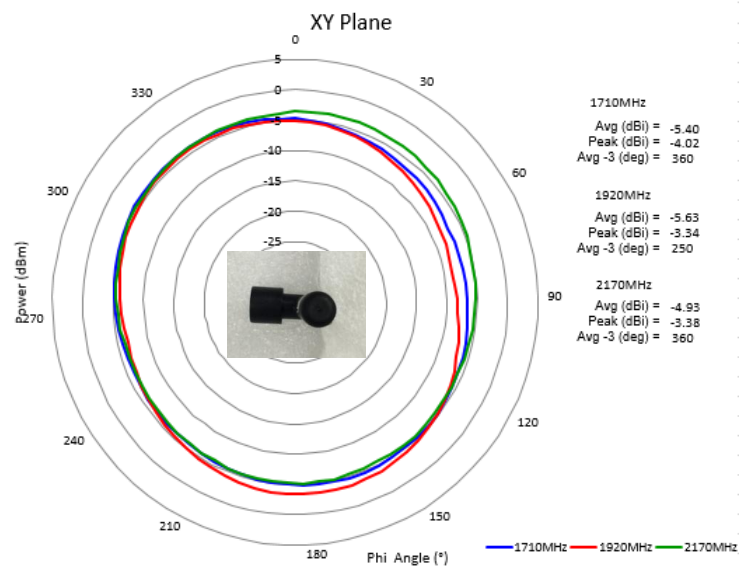
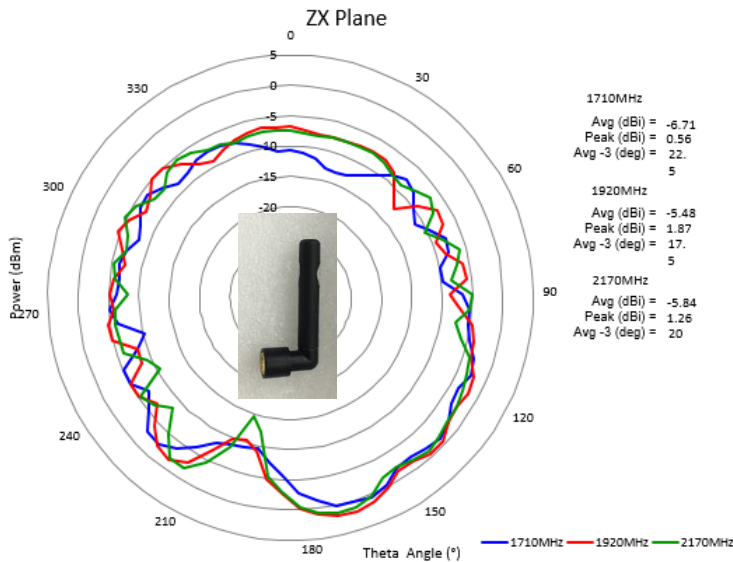
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CHARTS

Free Space Radiation Pattern

Elevation Plane

Horizontal Plane



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## PACKAGING

1pcs antenna per PE bag

18pcs PE bags per tray

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

216pcs per package box

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



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