

### 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)

### Applications:

- Penta band EU/US GSM/WCDMA

- Frequency range:

850 / 900 / 1800 / 1900/ 2100 MHz

- M2M Applications

W1900/W1902

W1900-M

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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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



## ELECTRICAL SPECIFICATIONS

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

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## MECHANICAL SPECIFICATIONS

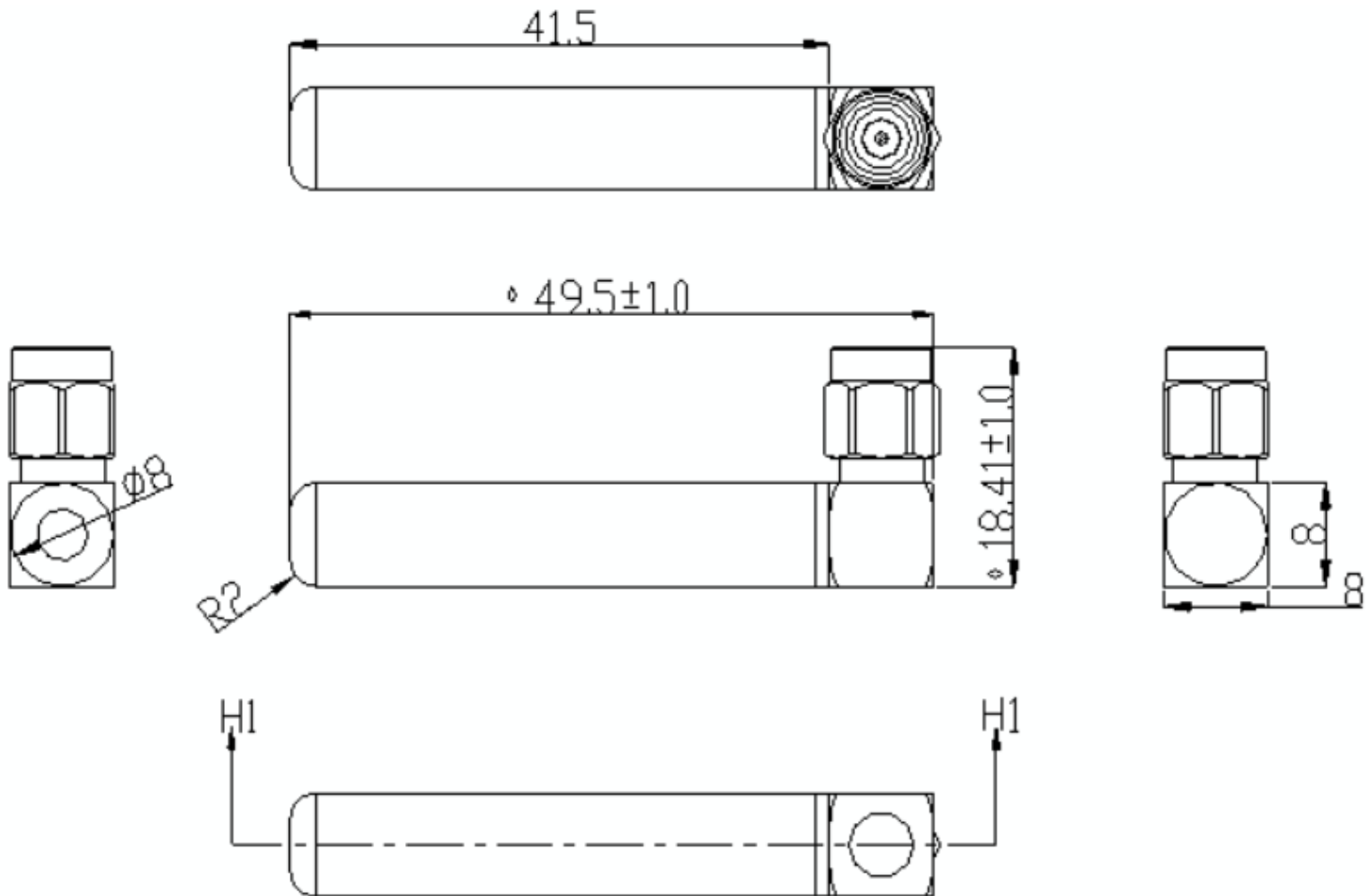
|                          |                                               |
|--------------------------|-----------------------------------------------|
| Weight                   | W1900/W1902 11.07g<br>W1900-M 11.1g           |
| Antenna Color / Material | Black                                         |
| Connector type           | W1900/W1900-M SMA(Male)<br>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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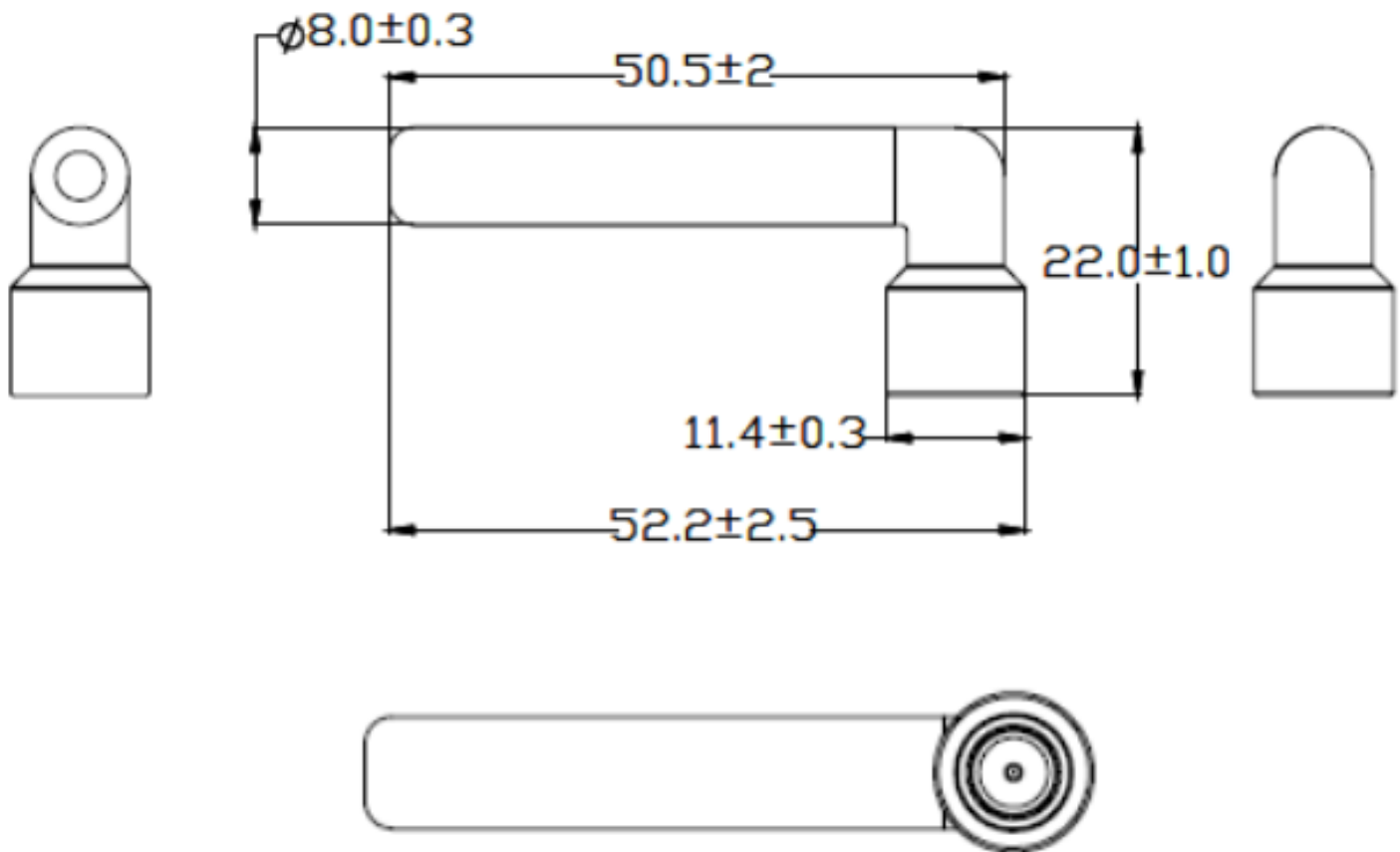
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MECHANICAL DRAWING

W1900-M



Issue: 1715

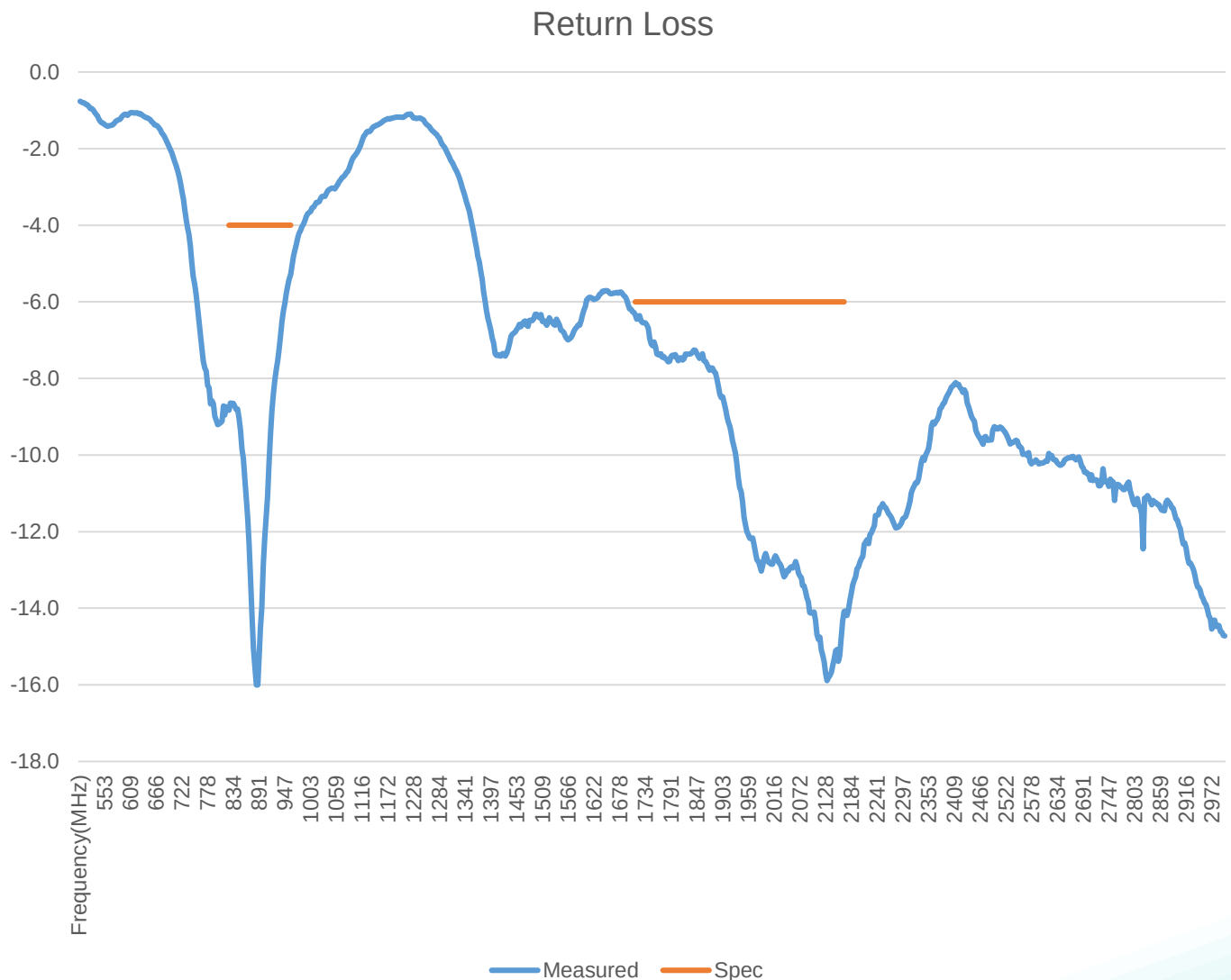
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## CHARTS

### Return Loss



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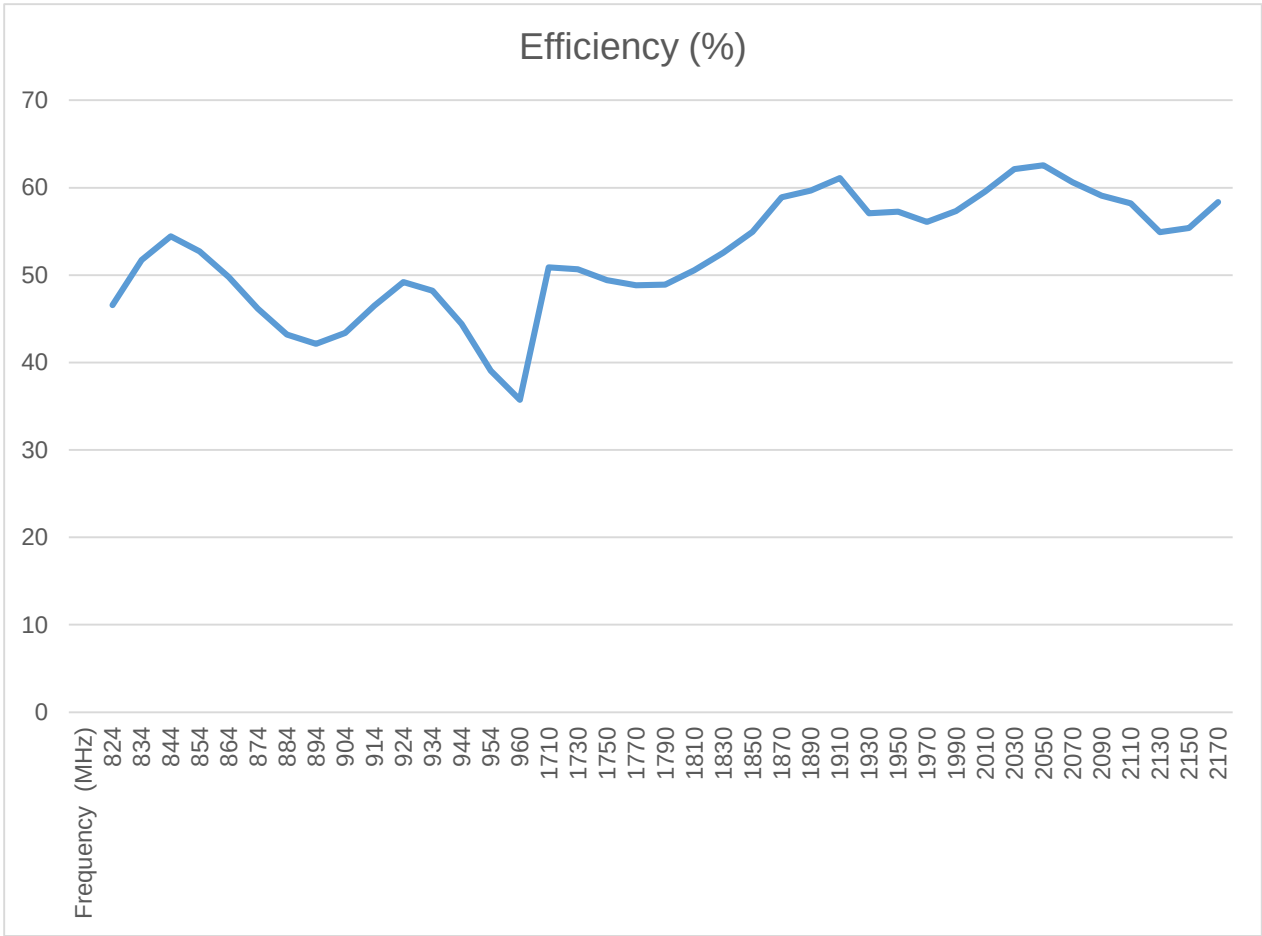
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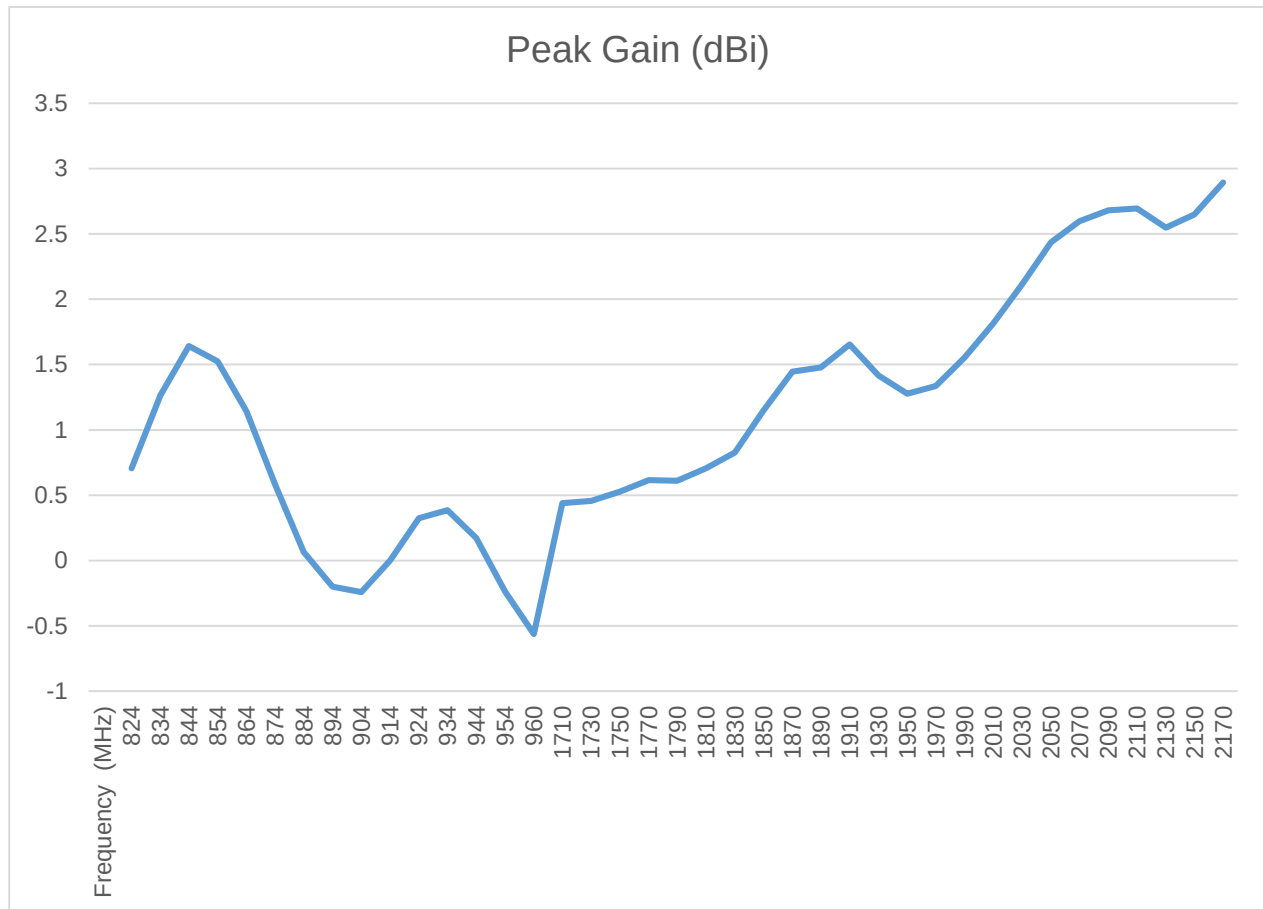
CHARTS

Efficiency(%)



CHARTS

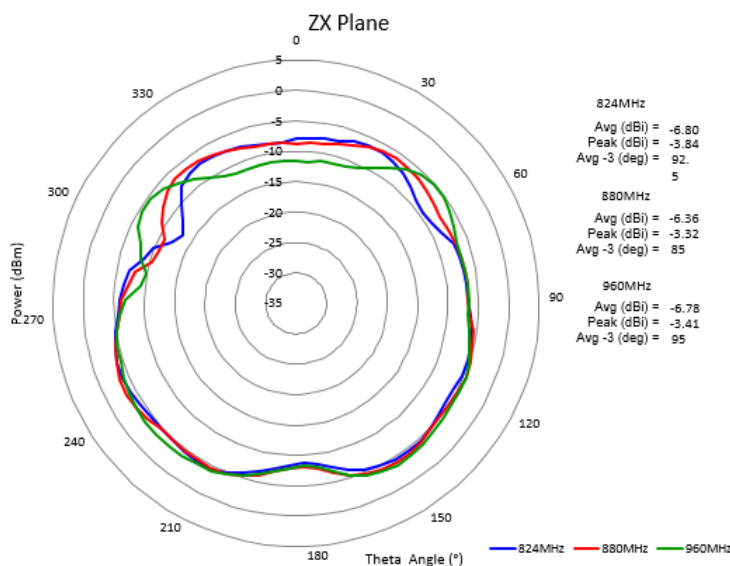
Peak Gain (dBi)



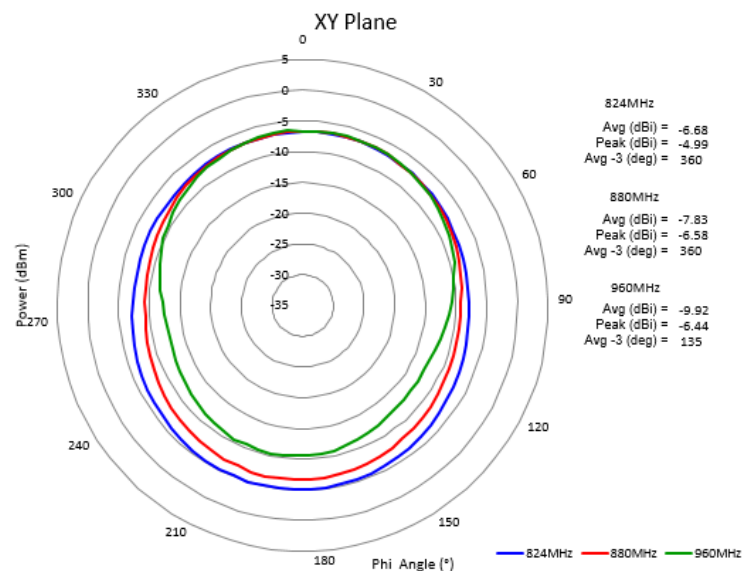
## CHARTS

### Free Space Radiation Pattern

#### Elevation Plane



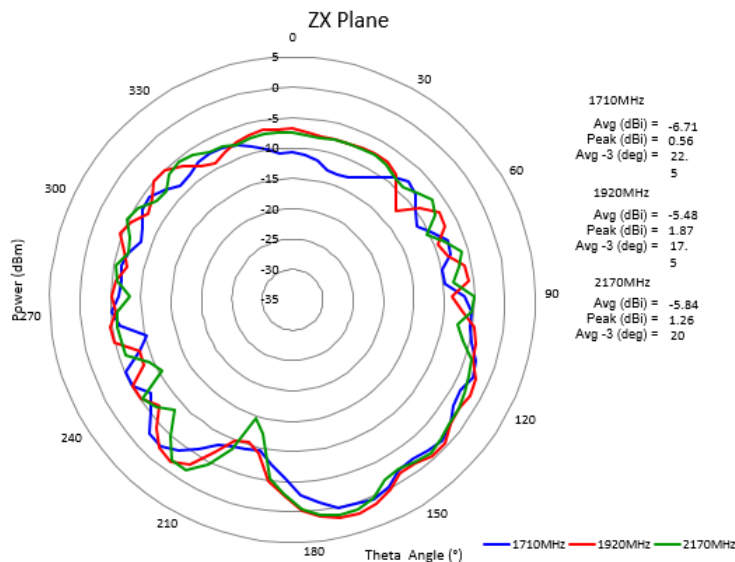
#### Horizontal Plane



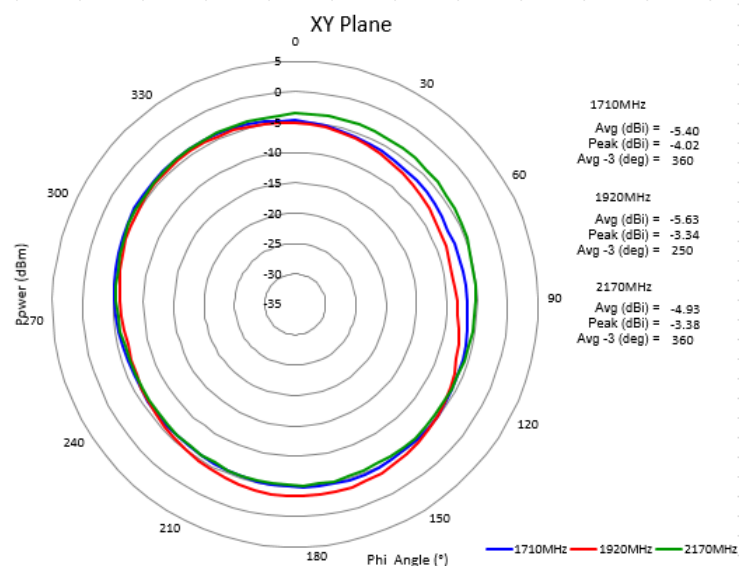
## CHARTS

### Free Space Radiation Pattern

#### Elevation Plane



#### Horizontal Plane



## 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