

Series: Stubby Antenna

Description:

Tri-Band 868/915/2400-2500MHz, Straight

PART NUMBER: W1698/W1699/W1698-M



W1698 / W1699



W1698-M

Features:

- Small form factor monopole
- Antenna size W x H:
W1698 / W1699 (10.4 x 49.6mm)
W1698-M (12 x 50mm)
- Connector Type:
W1698 SMA (male)
W1699 RP-SMA (male)
W1698-M SMA (male)
- RoHS Compliant Product

Applications:

- Tri-band Combo
- Frequency range:
868 / 915 / 2400 - 2500 MHz
- IoT, M2M Applications
- Sigfox, Lora
- Bluetooth, BLE, WiFi

All dimensions are in mm

Issue: 1911

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:

Pulse Worldwide Headquarters
15255 Innovation Drive #100
San Diego, CA 92128
USA
Tel: 1-858-674-8100

Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
Vancouver, WA 98683
USA
Tel: 1-360-944-7551

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

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



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ELECTRICAL SPECIFICATIONS

Frequency	868-928MHz 2400-2500MHz
Nominal Impedance	50Ω
VSWR	3 868-928MHz 3 2400-2500MHz
Peak Gain	0.3dBi 868-928MHz 1.2dBi 2400-2500MHz
Efficiency	64% / 70%
Radiation Pattern	Omni
Polarization:	Linear
Power withstanding	5W

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MECHANICAL SPECIFICATIONS

Weight	W1698 / W1699: 7.5g W1698-M: 7.8g
Antenna Color	Black
Connector type	W1698/W1698-M SMA(Male) W1699 RP-SMA(Male)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30/+75 ° C
Storage Temperature	-30/+75 ° C
Ingress Protection	IP65 (W1698-M) IP42 (W1698 and W1699)
Wind-loading	100km/h
RoHS Compliant	Yes

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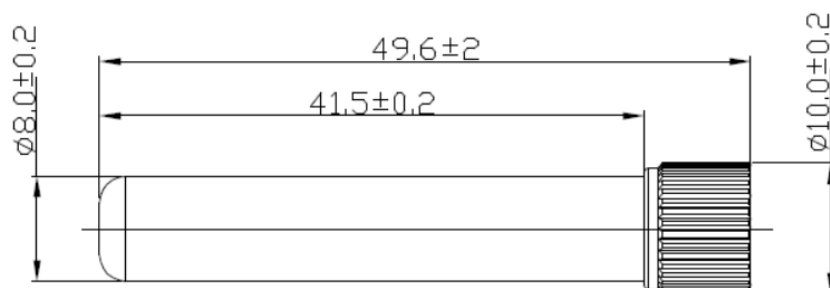
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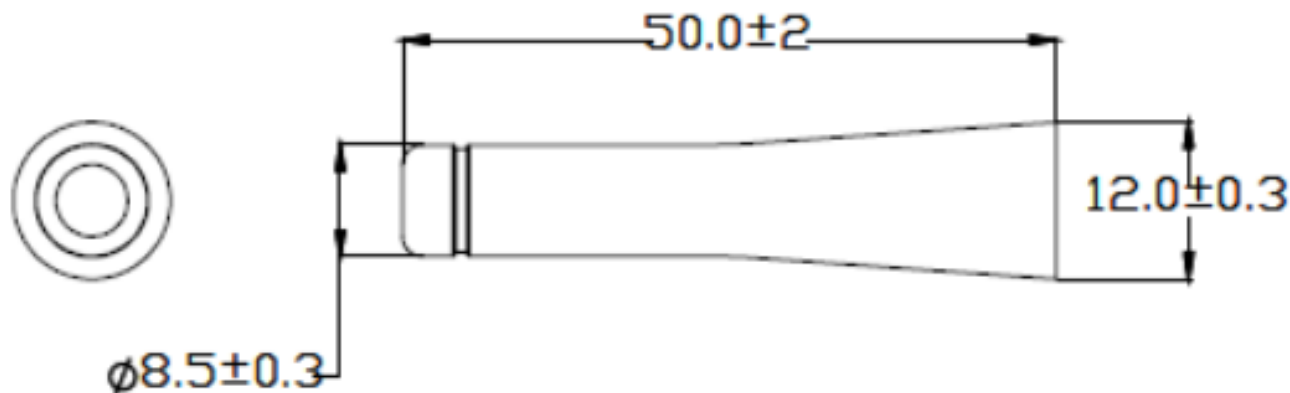
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MECHANICAL DRAWING

W1698 / W1699



W1698-M



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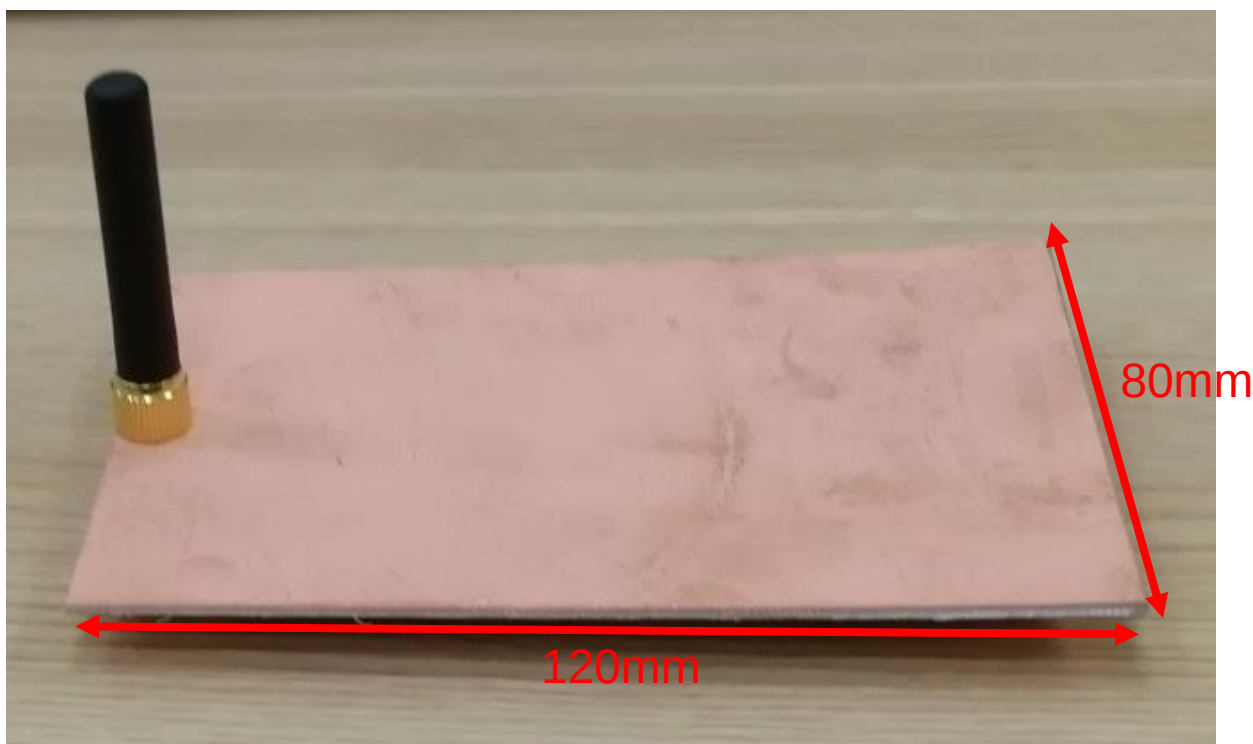
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TEST SETUP



Test with 80mm*120mm ground plane.

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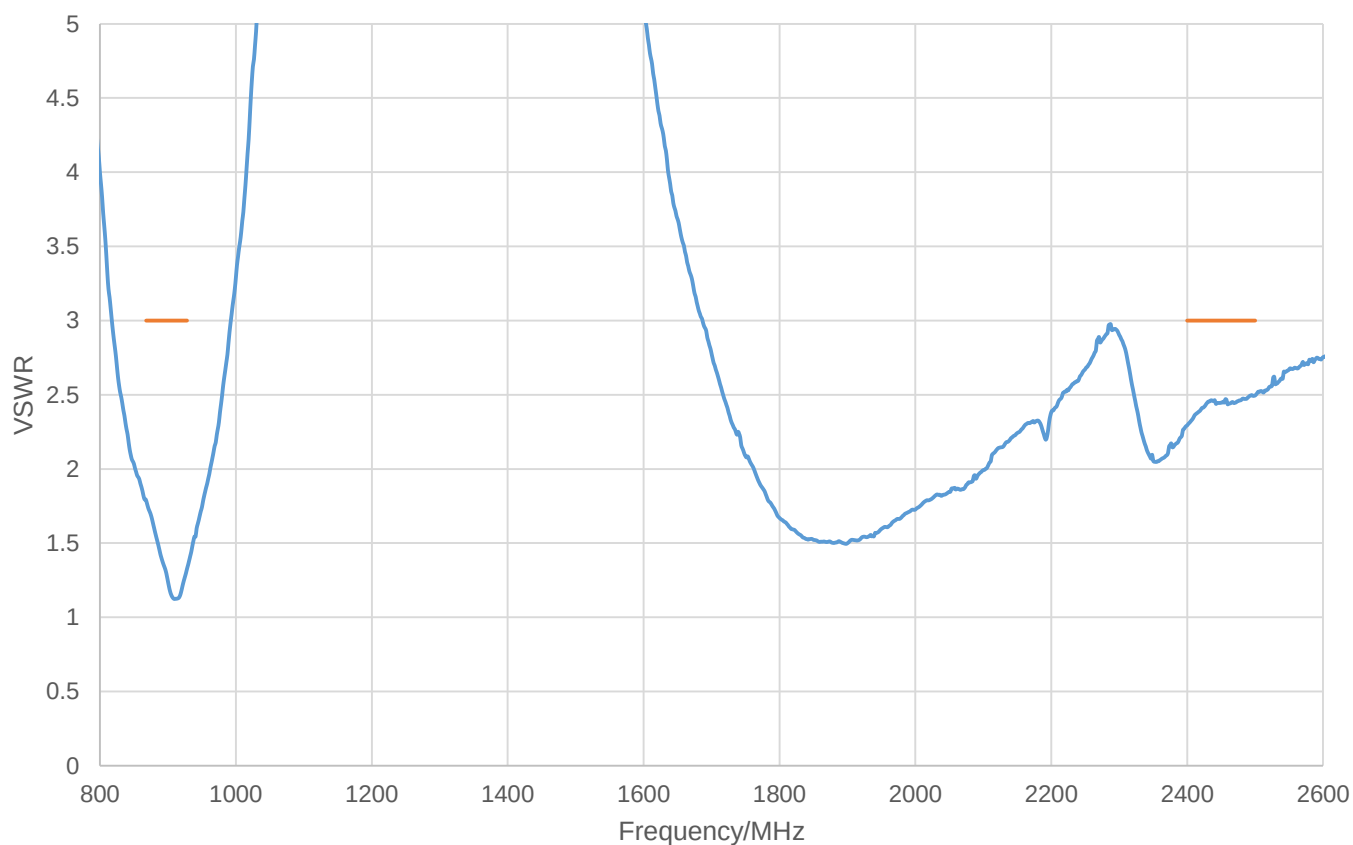
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CHARTS

Return Loss vs Frequency



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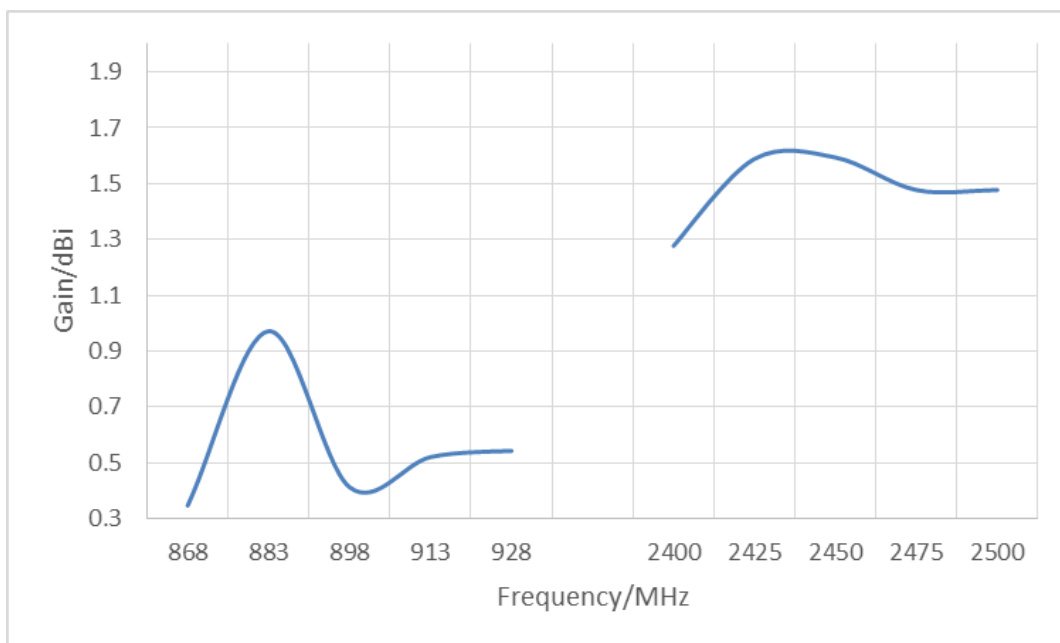
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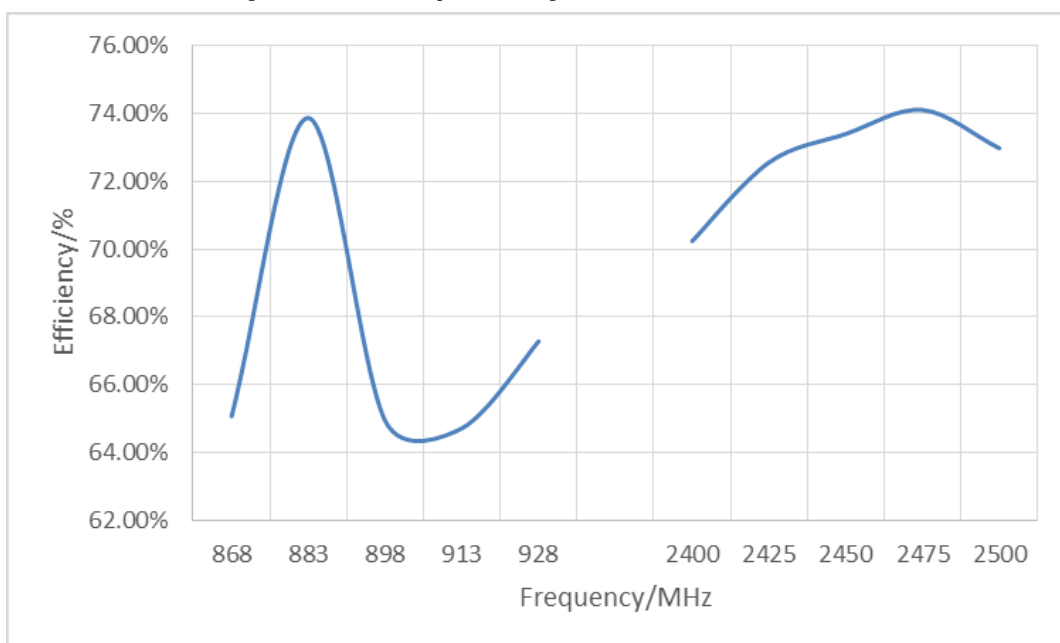
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CHARTS

Peak Gain vs Frequency



Radiation Efficiency vs Frequency



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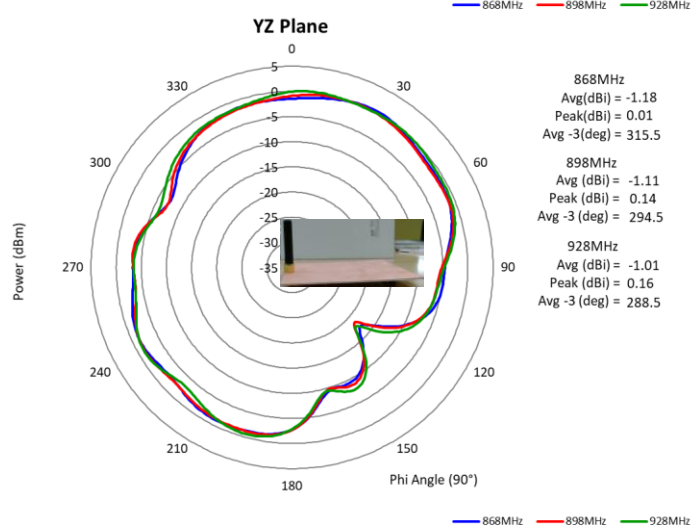
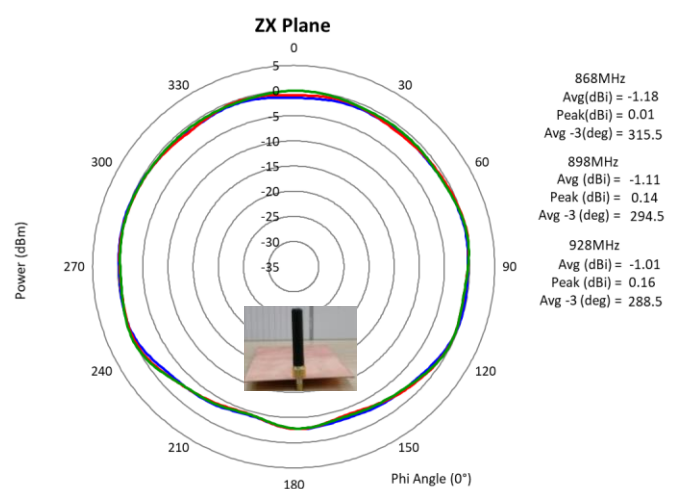
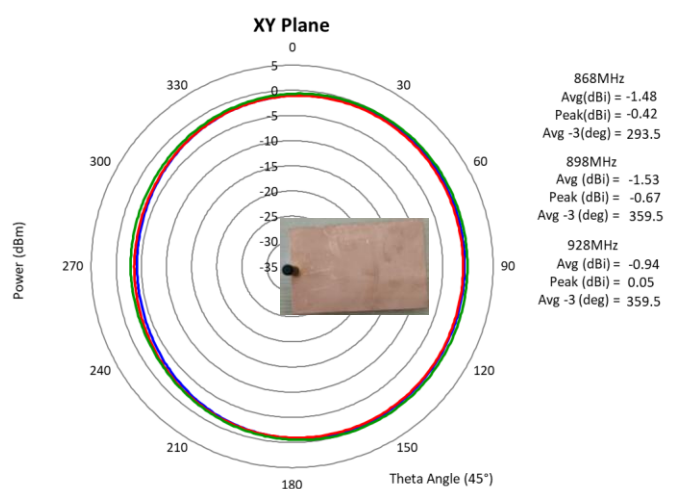
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CHARTS

Free Space Radiation Pattern(868-928MHz)



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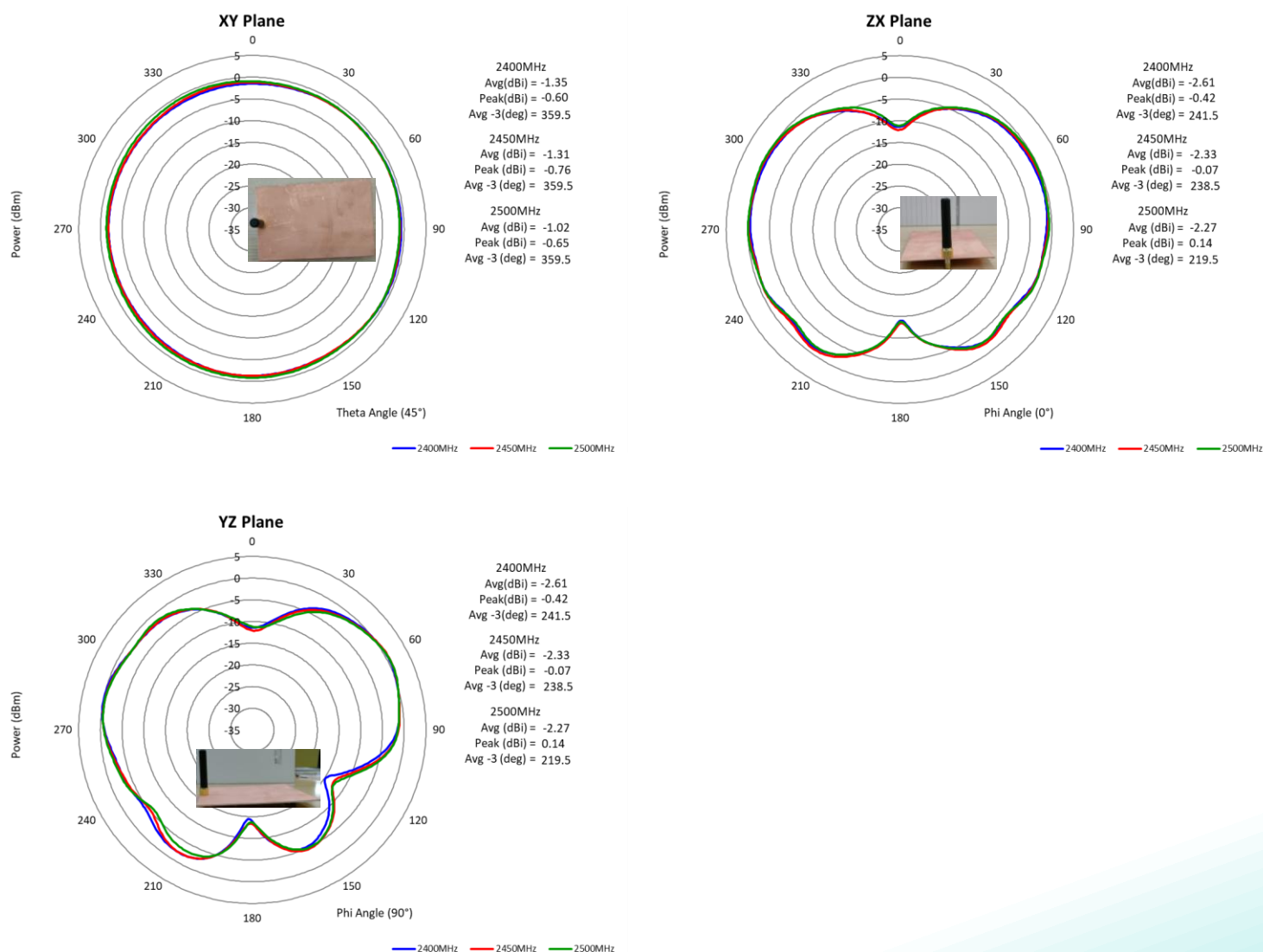
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CHARTS

Free Space Radiation Pattern(2400-2500MHz)



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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