

Description: 2.4/4.9-7.125GHz FPC antenna**Series: Internal Antenna****PART NUMBER: W3918B0100F****Features:**

- 2400-2500 / 4900-7125 MHz
- Size 35.2 X 8.5 X 0.15 mm
- Efficiency > 60/70%
- VSWR < 2
- Nominal impedance 50 Ω
- Cable and connector can be customized

Applications:

- WiFi 6E, 802.11ax
- Bluetooth, BLE, ZigBee
- DSRC
- ISM band radios
- IoT, M2M

All dimensions are in mm / inches

Issue: 2110

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

For more information:



Pulse Worldwide Headquarters
12220 World Trade Drive
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

Description: 2.4/4.9-7.125GHz FPC antenna**Series: Internal Antenna****PART NUMBER: W3918B0100F****ELECTRICAL SPECIFICATIONS**

Antenna Type	Dipole
Frequency	2400-2500MHz 4900-7125MHz
Nominal Impedance	50 Ω
Return Loss	2400-2500MHz<-10db 4900-7125MHz<-6db
Radiation Pattern	Omni
Peak Gain	2.5+/-1dBi@2400-2500MHz 3.5+/-1dBi@4900-7125MHz
Efficiency	65%@2400-2500MHz 65%@4900-7125MHz
Polarization	Linear
Power Withstanding	5W

(*) All RF parameters measured on 2mm thick PC plate

Description: 2.4/4.9-7.125GHz FPC antenna**Series: Internal Antenna****PART NUMBER: W3918B0100F****MECHANICAL SPECIFICATIONS**

Radiator material	FPC
Color	Black
Adhesive	3M467
Thickness(with adhesive, no liner)	0.15mm
Weight	0.32g
FPC size(L X W X T)	35.2 X 8.5 X 0.15mm

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40 ~ +85 ° C
-----------------------	---------------

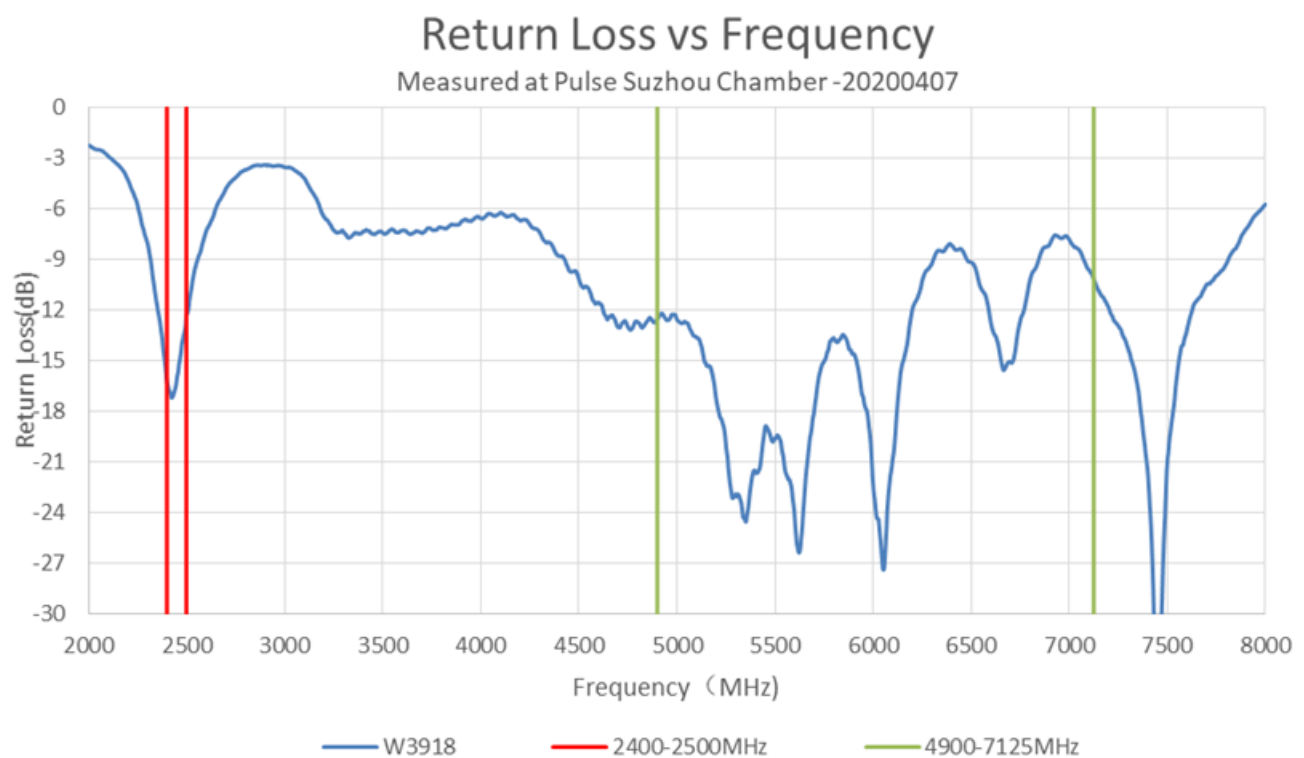
Description: 2.4/4.9-7.125GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918B0100F

CHARTS

Return Loss



(*) All RF parameters measured on 2mm thick PC plate

Issue: 2110

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

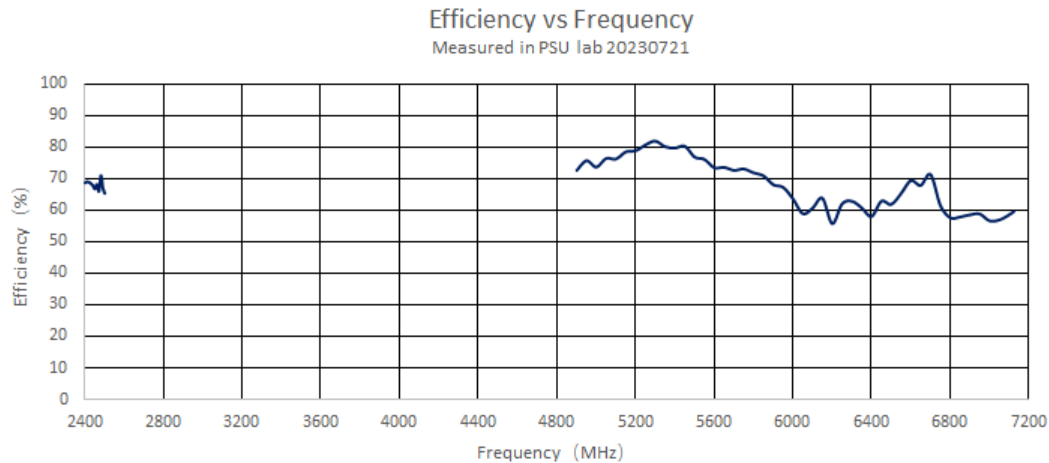
Description: 2.4/4.9-7.125GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918B0100F

CHARTS

Efficiency



(*) All RF parameters measured on 2mm thick PC plate

Issue: 2110

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

Description: 2.4/4.9-7.125GHz FPC antenna

Series: Internal Antenna

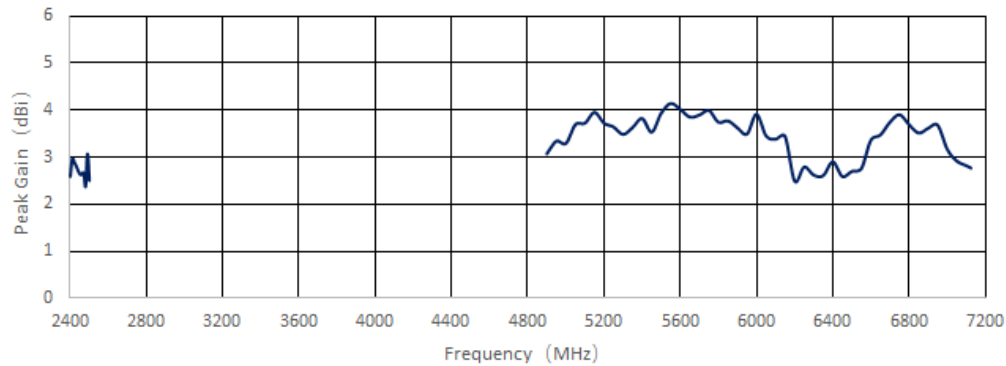
PART NUMBER: W3918B0100F

CHARTS

Peak Gain

Peak Gain vs Frequency

Measured in PSU lab 20230721



(*) All RF parameters measured on 2mm thick PC plate

Issue: 2110

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

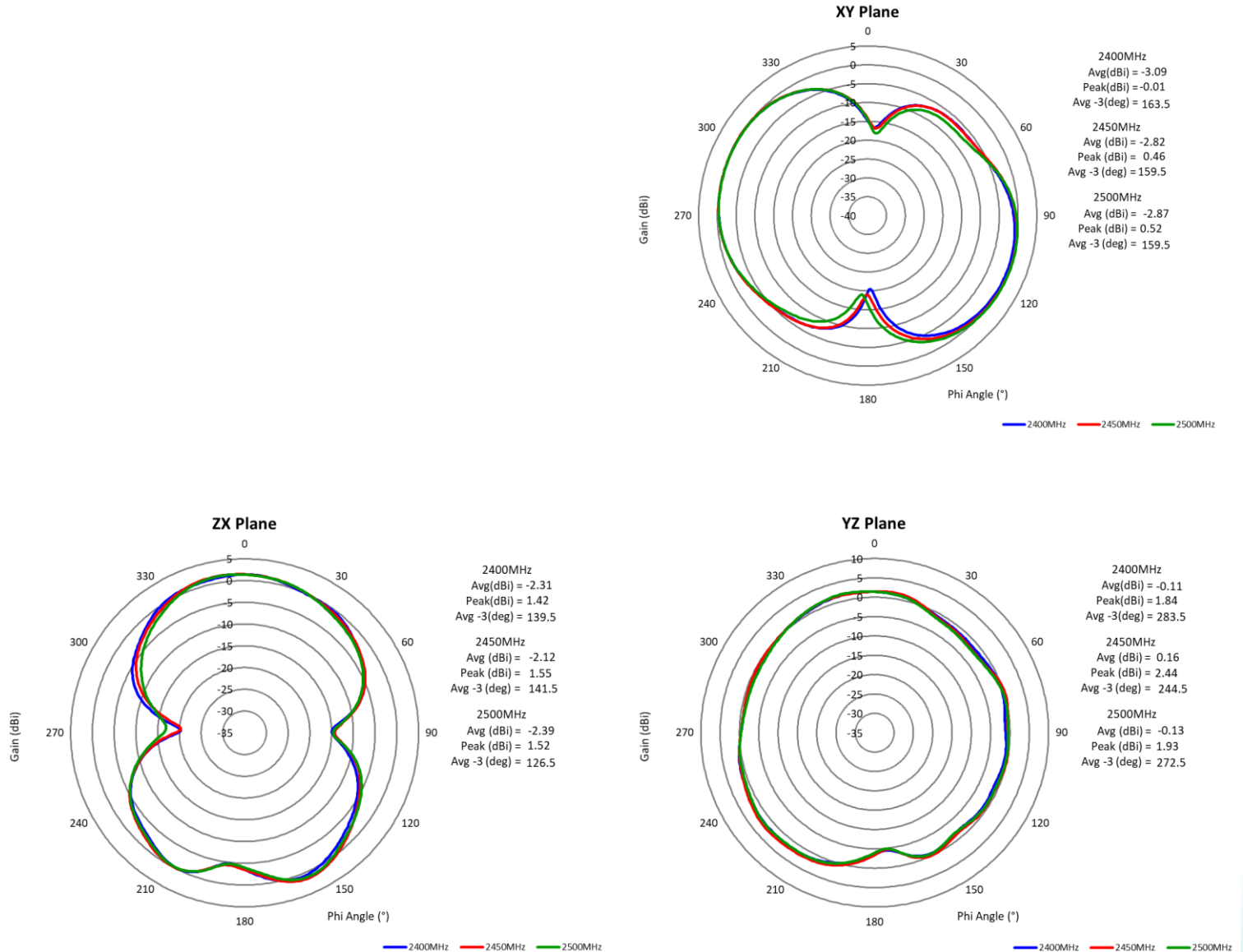
Description: 2.4/4.9-7.125GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918B0100F

CHARTS

Radiation Patterns 2400-2500MHz



(*) All RF parameters measured on 2mm thick PC plate

Issue: 2110

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

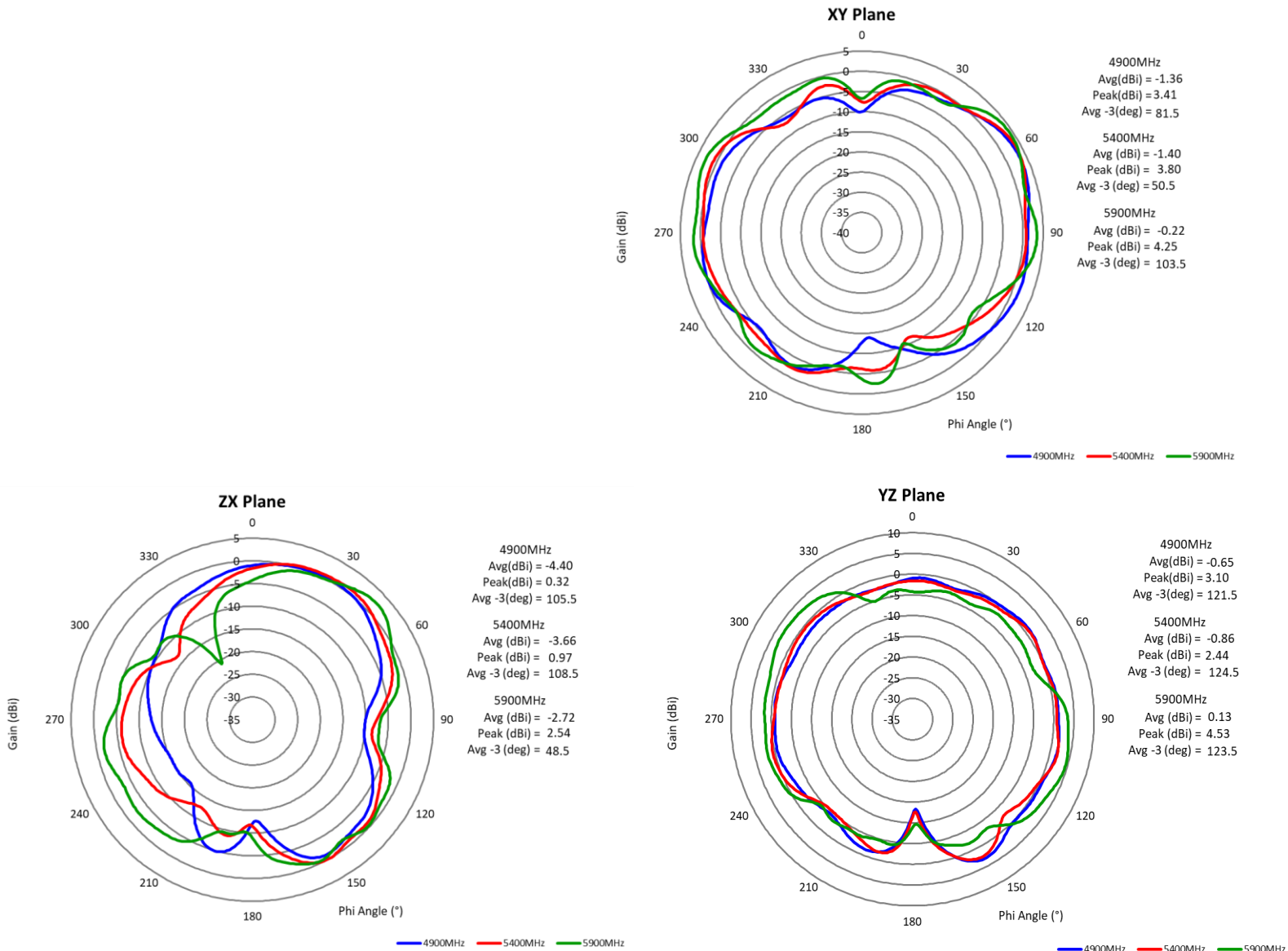
Description: 2.4/4.9-7.125GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918B0100F

CHARTS

Radiation Patterns 4900-5900MHz



(*) All RF parameters measured on 2mm thick PC plate

Issue: 2110

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

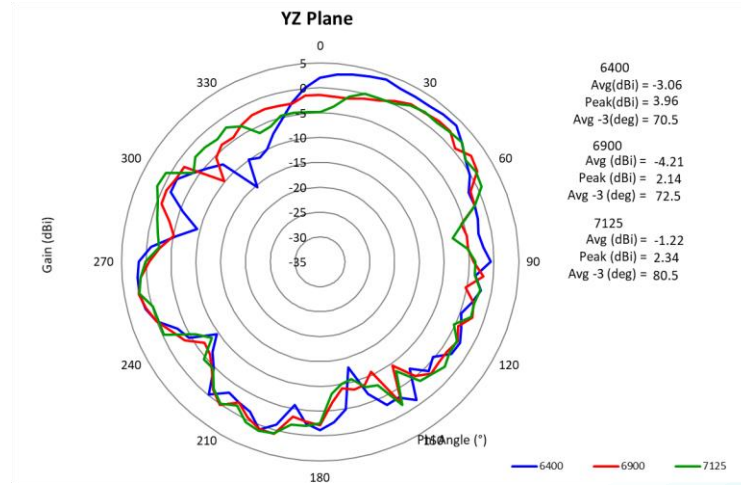
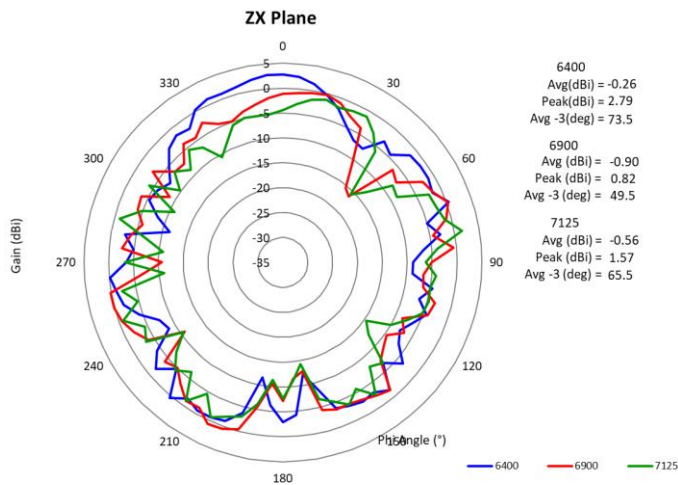
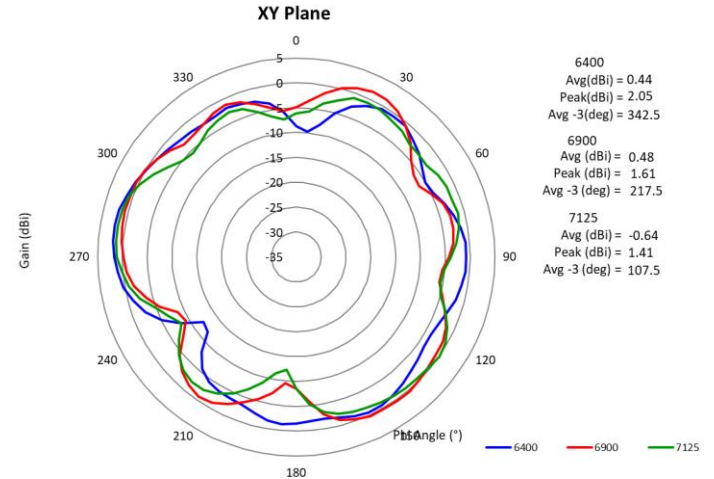
Description: 2.4/4.9-7.125GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918B0100F

CHARTS

Radiation Patterns 6000-7125MHz



(*) All RF parameters measured on 2mm thick PC plate

Issue: 2110

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