



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: 1902

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

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



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		

Issue: 1902

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

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



MECHANICAL SPECIFICATIONS

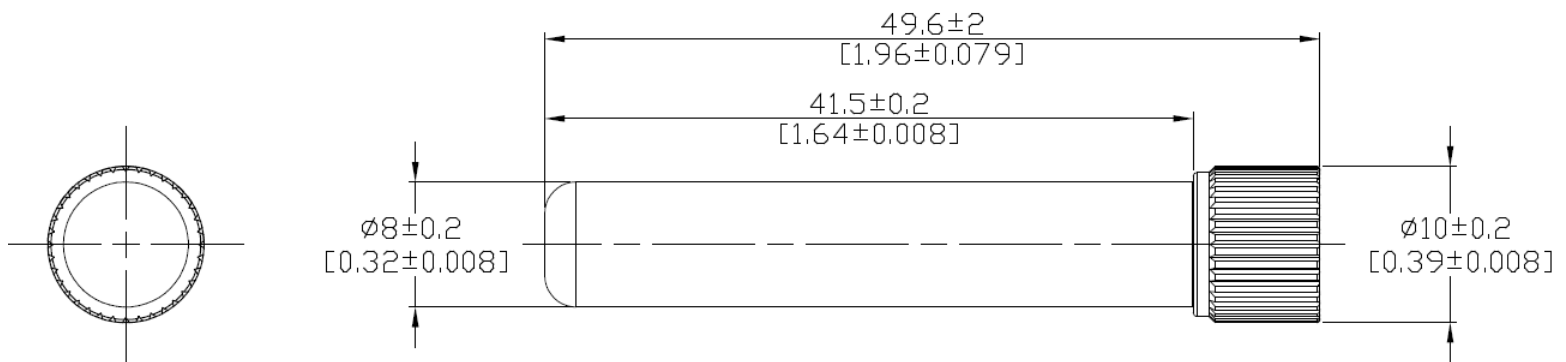
Weight	W1696 / W1697: 7.5g W1696-M: 7.8g
Antenna Color	Black
Connector type	W1696 / W1696-M SMA(Male) W1697 RP-SMA(Male)

ENVIRONMENTAL SPECIFICATIONS

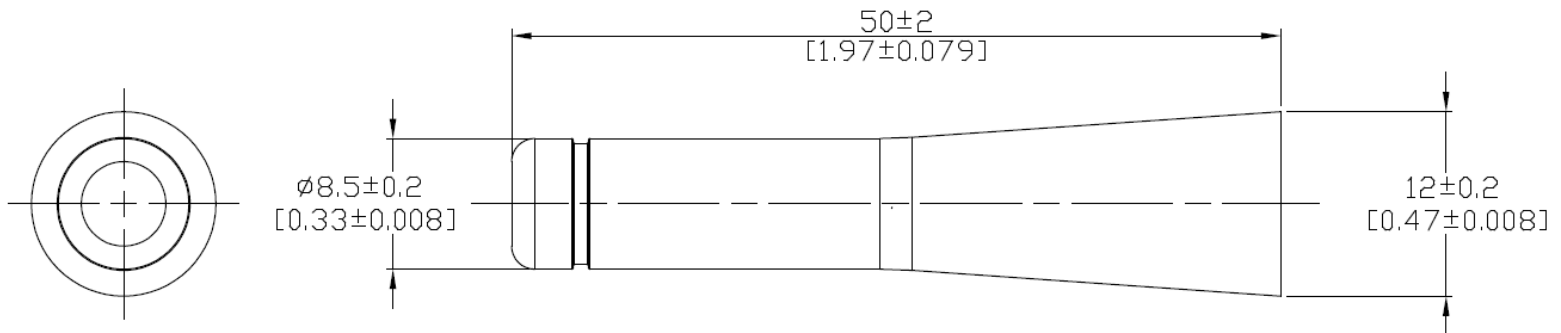
Operating Temperature	-30/+85 ° C
Storage Temperature	-30/+85 ° C
Ingress Protection	IP65 (W1696-M) IP42 (W1696 and W1697)
Wind-loading	100km/h
RoHS Compliant	Yes

MECHANICAL DRAWING

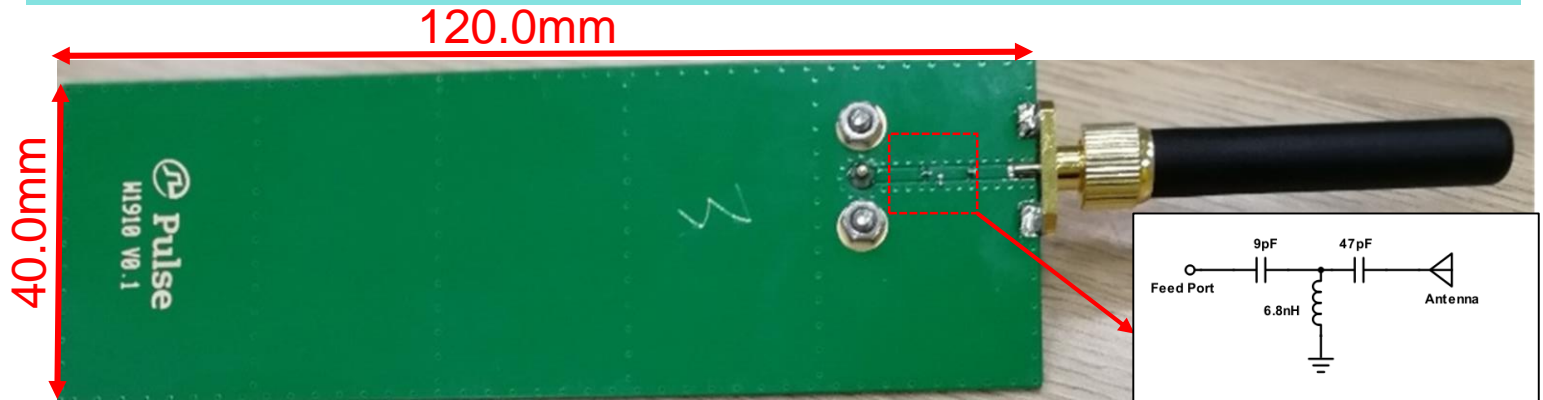
W1696 / W1697



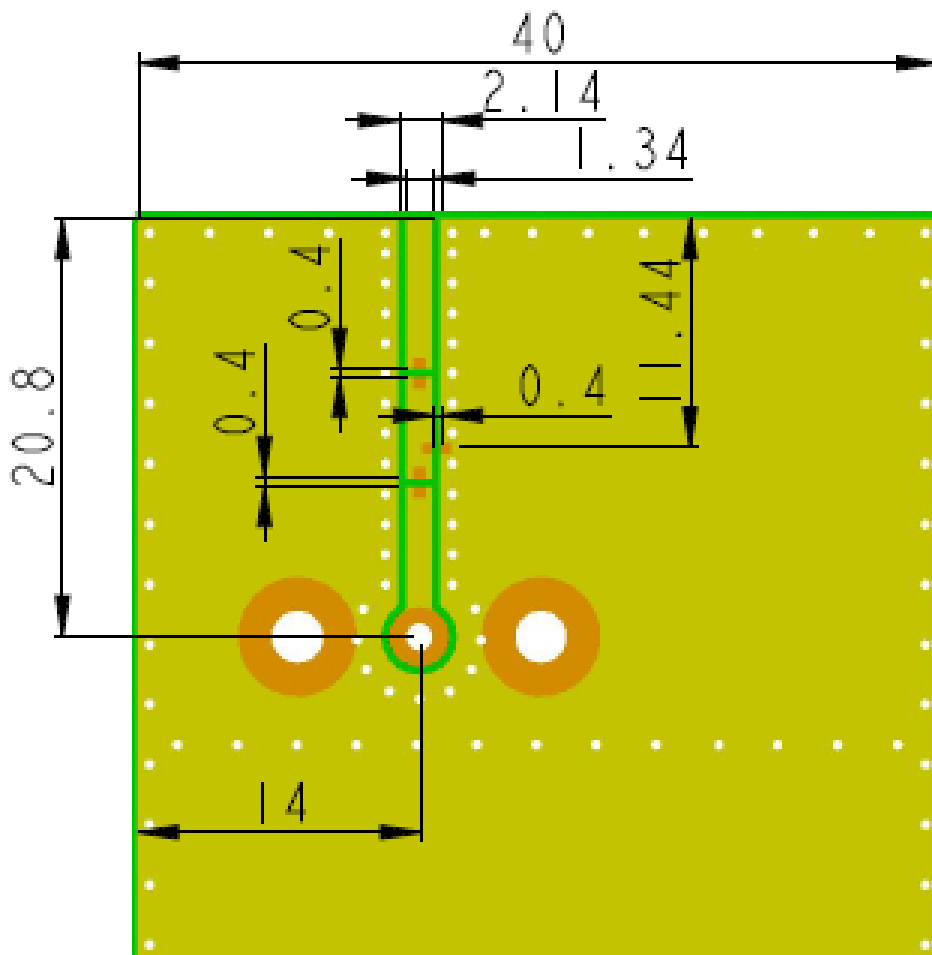
W1696-M



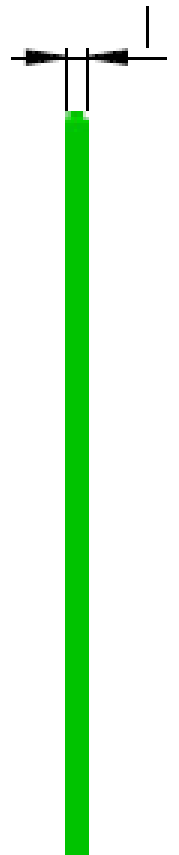
TEST SETUP



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

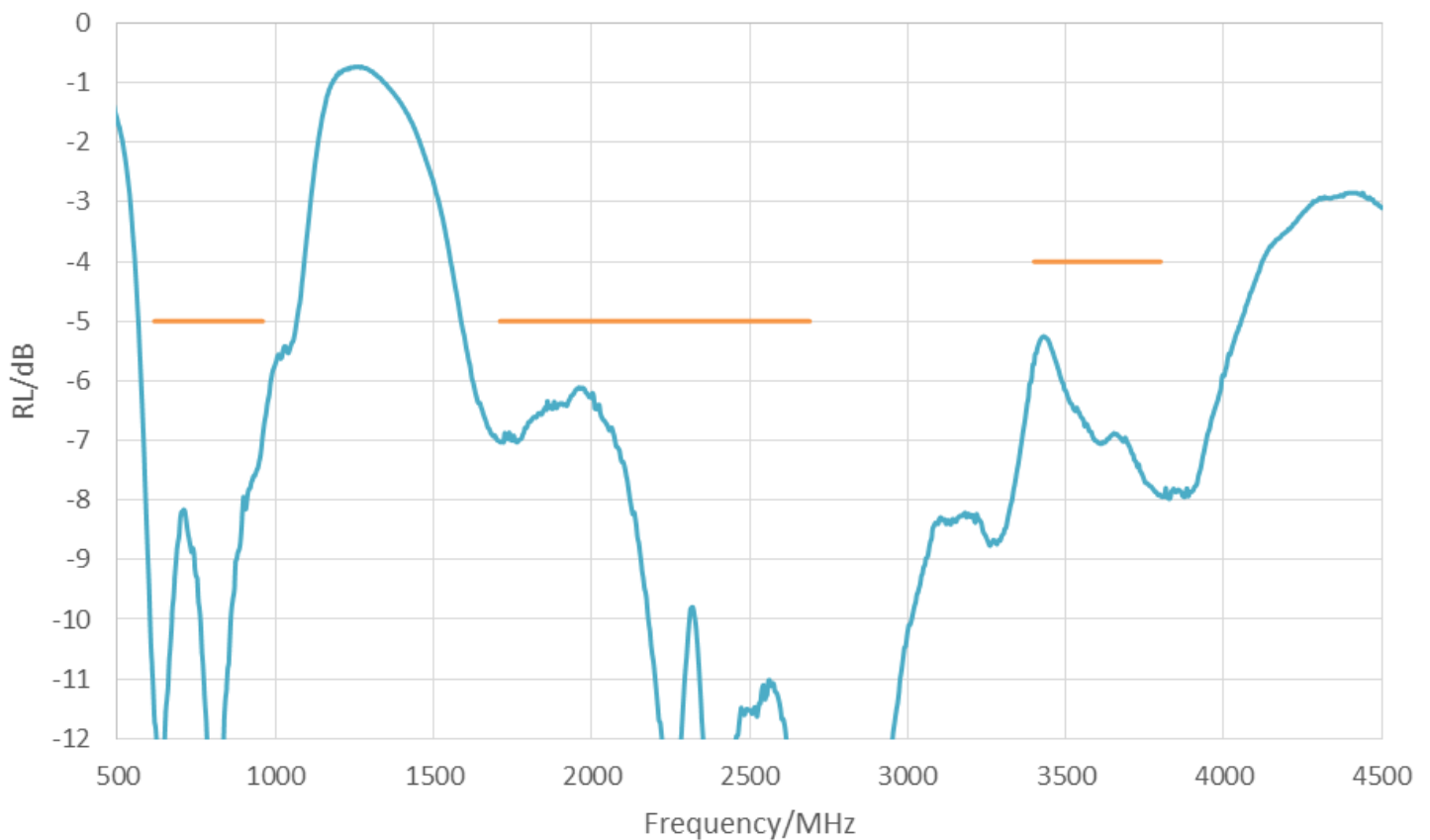


Unit: mm



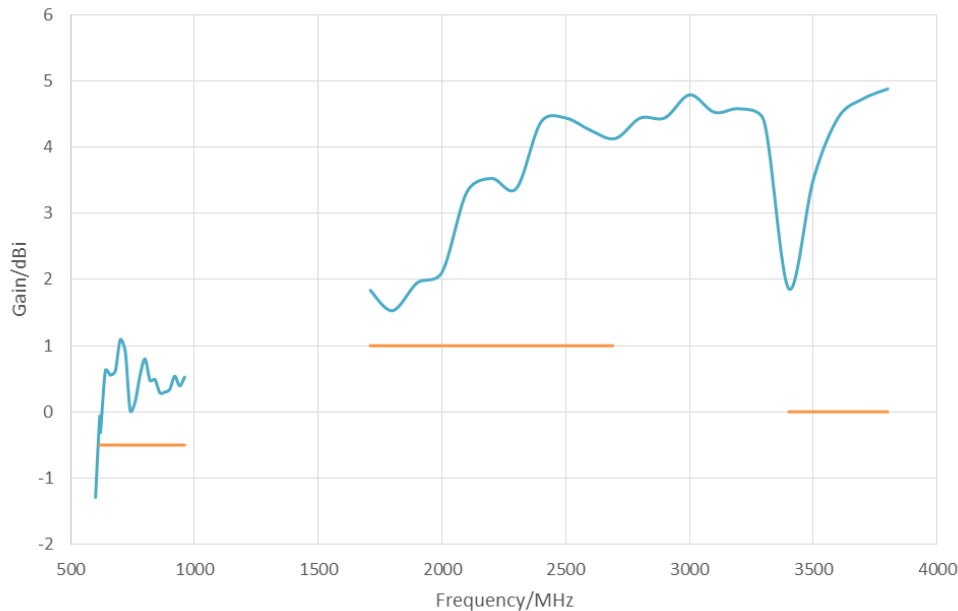
CHARTS

Return Loss vs Frequency

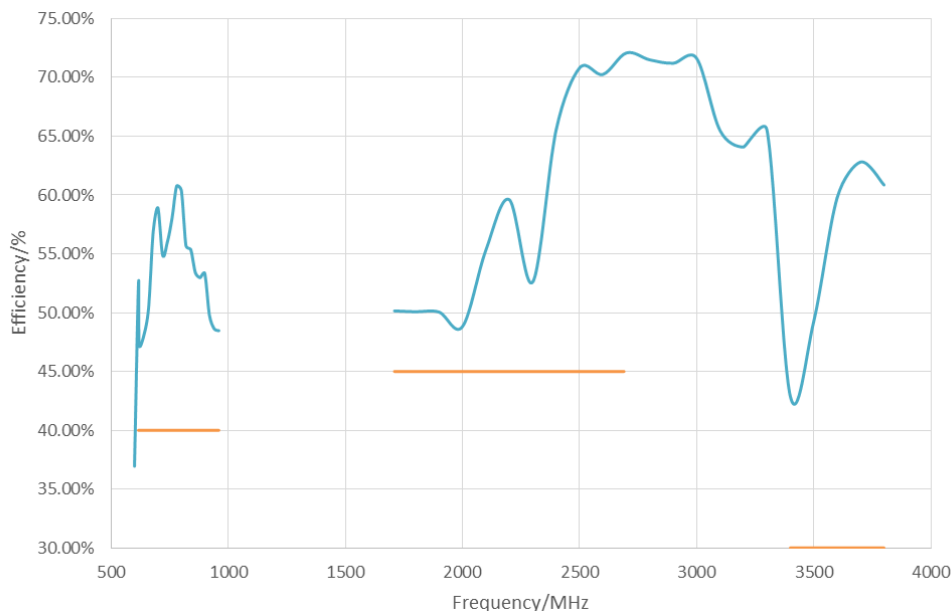


CHARTS

Peak Gain vs Frequency



Radiation Efficiency vs Frequency



Issue: 1902

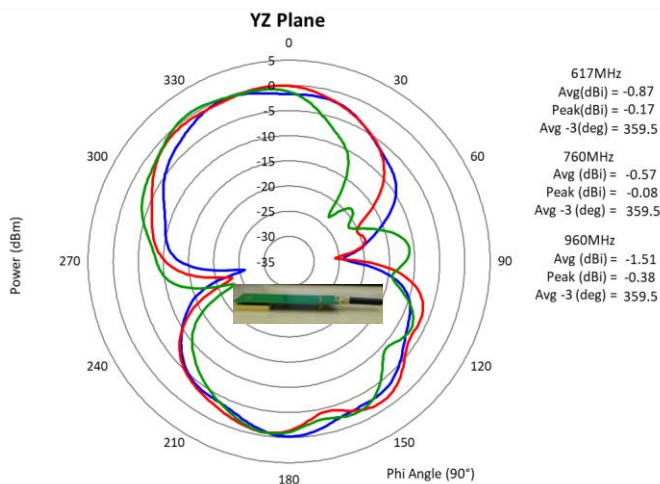
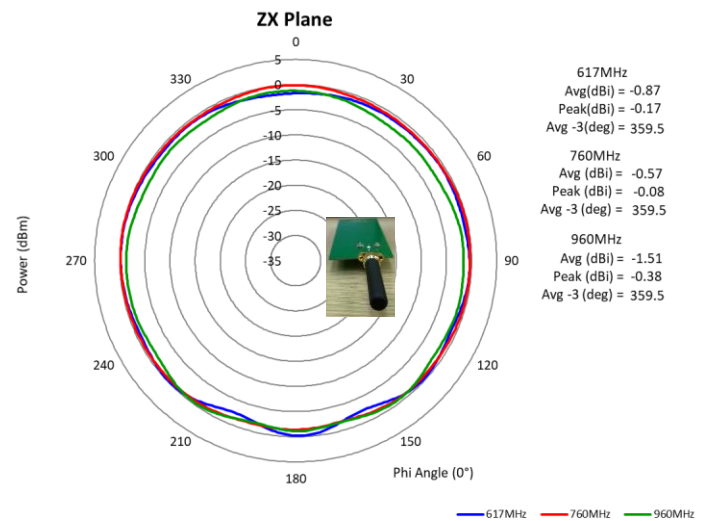
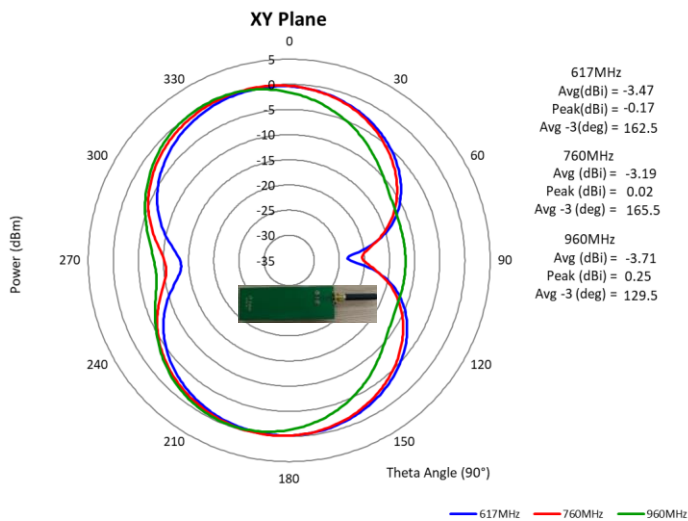
In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

CHARTS

Free Space Radiation Pattern(617-960MHz)



Issue: 1902

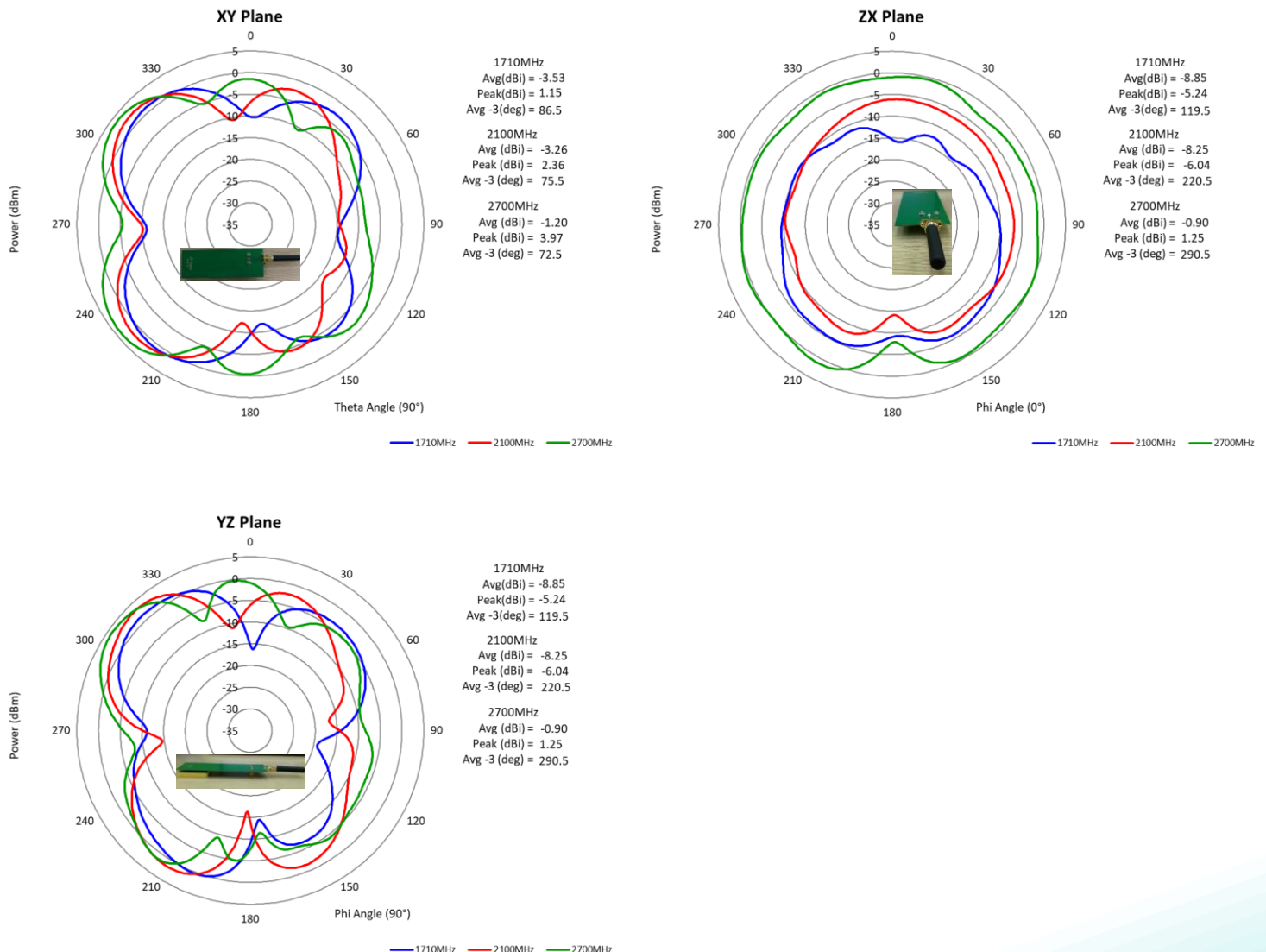
In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

CHARTS

Free Space Radiation Pattern(1710-2690MHz)



Issue: 1902

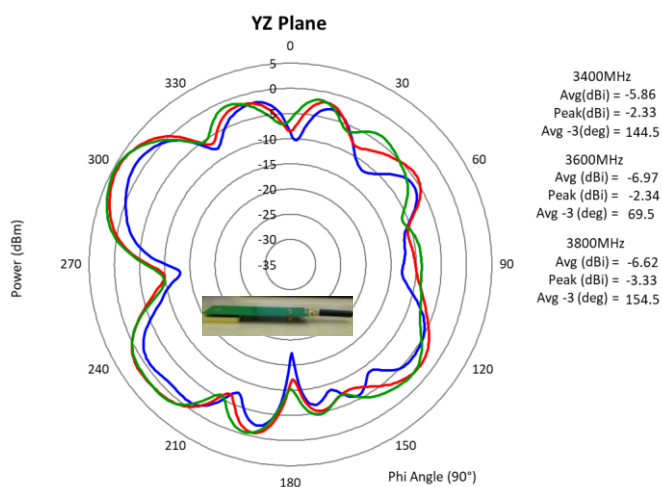
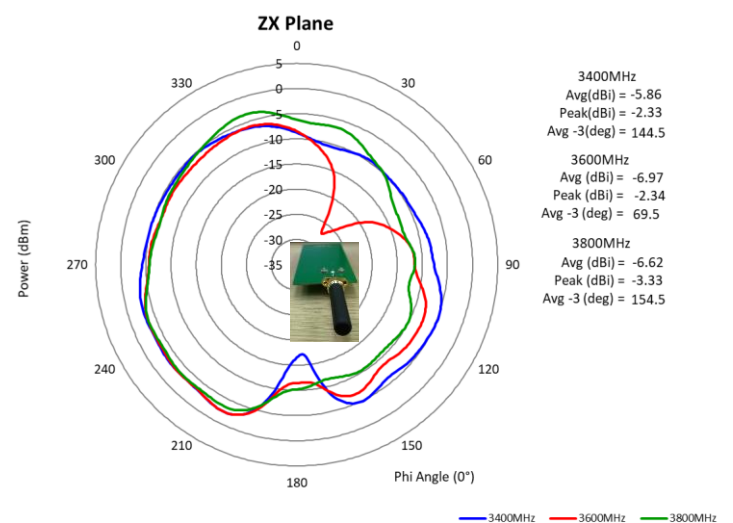
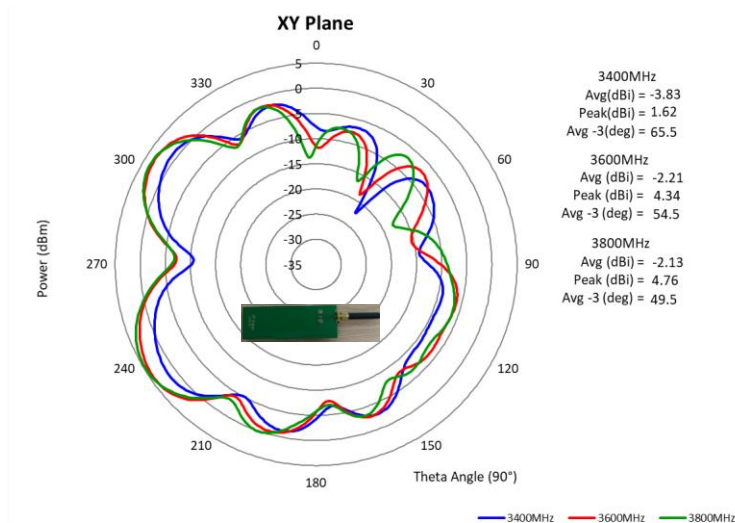
In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

CHARTS

Free Space Radiation Pattern(3400-3800MHz)



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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

[W1696-M](#) [W1696](#) [W1697](#)