

Description: MULTI BAND SWIVEL MOUNT DIPOLE, TNC SPIN CONNECTOR 698-960&1447-1510&1710-2690MHz

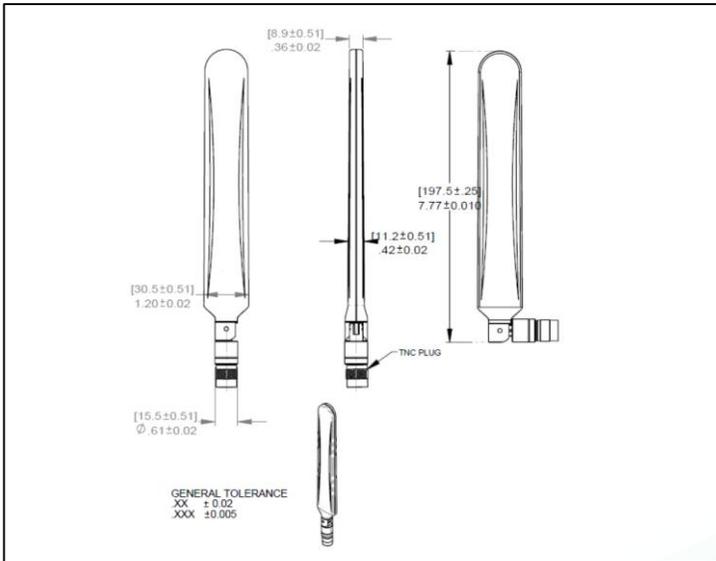
Series: Blade Antenna

PART NUMBER: W5095X



Features:

- 698-2690MHz
- Gain 1-2.5dBi
- Optimized performance for both straight and 90deg bent positions
- IP65
- Total length 229mm (straight)



Applications:

- LTE radios
- 2G/3G/4G radios
- Gateways, set top boxes, security

All dimensions are in mm / inches

Issue: 1634

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
12220 World Trade Drive
San Diego, CA 92128
USA
Tel:1-858-674-8100

Pulse/Larsen Antennas
3611 NE 112th Ave
Vancouver, WA 98682
USA
Tel: 1-360-944-7551

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,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



Description: MULTI BAND SWIVEL MOUNT DIPOLE, TNC SPIN CONNECTOR 698-960&1447-1510&1710-2690MHz

Series: Blade Antenna

PART NUMBER: W5095X

ELECTRICAL SPECIFICATIONS

Frequency	698-960/1400-2690	GHz
Nominal Impedance	50	Ω
VSWR	2.5:1	
Gain (698-960MHz)	1.0	dBi+/- 1dB
Gain (1400-2170MHz)	1.07	dBi+/- 1dB
Gain (2300-2500MHz))	1.48	dBi+/- 1dB
Gain (2500-2690MHz))	2.16	dBi+/- 1dB
Average Efficiency(698-960MHz)	60	%
Average Efficiency(1400-2170MHz)	65	%
Average Efficiency(2300-2500MHz)	70	%
Average Efficiency(2500-2690MHz)	85	%
Horizontal Plane	OMNI	
Polarization	Vertical	
Power withstanding	3	W
Connector type	TNC male (SMA male is optional)	

Description: MULTI BAND SWIVEL MOUNT DIPOLE, TNC
SPIN CONNECTOR 698-960&1447-1510&1710-2690MHz

Series: Blade Antenna

PART NUMBER: **W5095X**

MECHANICAL SPECIFICATIONS

Plastic radome	ABS/PC
Color	Black
Flammability	UL94-V0
Ingress Protection	IP65
Weight	50 g
Wind-loading	100 mph
Overall Length	9[229] INCHES[mm]
Position	0°, 45° & 90°

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85 ° C
Storage Temperature	-40/+85 ° C
Salt mist	96 hours

Description: MULTI BAND SWIVEL MOUNT DIPOLE, TNC SPIN CONNECTOR 698-960&1447-1510&1710-2690MHz

Series: Blade Antenna

PART NUMBER: W5095X

MECHANICAL DRAWING

NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET THIS SPECIFICATION PER PULSE PQ: 7.004.000 AND STANDARDS REFERENCED THEREIN.

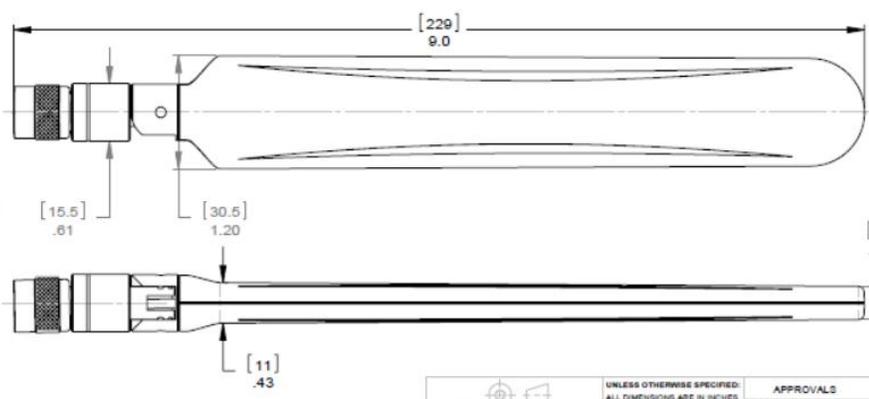
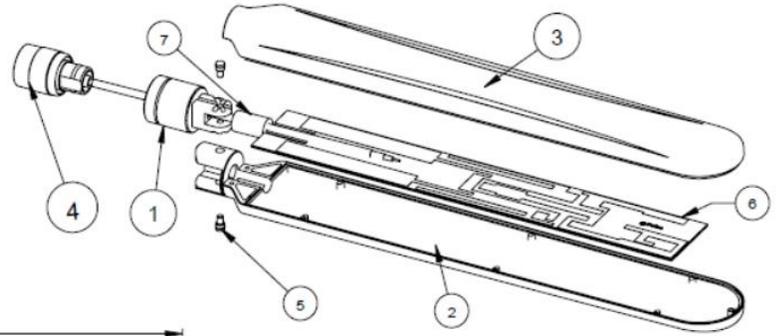
ELECTRICAL SPECIFICATIONS:

- FREQ: 698-960/824-894/925-960/1710-1885/1920-1980/2110-2170/2600-2690 MHz<E BAND
- VSWR: 2.5 MAX
- PEAK GAIN: 2.0 dBi

ENVIRONMENTAL:

- OPERATING TEMP: -30/+70 °C
- VIBRATION: Mechanical Vibration(Non-Operational). 1.12 Grms from 3 to 500 Hz with spectral break points of 0.0065 G2 / Hz at 10 Hz and 100 Hz and 5 dB/octave roll off at each end.
- 90° ARTICULATION: Articulate each antenna 15 times from the horizontal position to the vertical position. Antenna must be capable of returning to and holding both positions within +/-2 degrees. After temperature shock.
- THERMAL SHOCK: Industrial Product 3 cycles, -25°C TO +70°C AT 5° per min, dwell 1 HR at max and min.
- MECH SHOCK: Mechanical Shock (Non-Operational)
- HUMIDITY: Humidity (Non-Operational) 95% RH, Aggravated Humidity test in MIL-STD-810 Method 507.3, Procedure III for five 24 hour cycles.
- DROP TEST: 1 METER, RANDOM, 10 DROPS onto tile.

REV.		DESCRIPTION	DWG. NO. W5095	
10		CLASS A RELEASE	ECN #	DATE
				11-Aug-16
			APPROVED	WinZhu



ITEM	QTY	PART NUMBER	DESCRIPTION
7	1	043-5090.001	W5090 RUBBER
6	1	025-5333.002	PCB W5090
5	2	0020.0015	PIVOT PIN
4	1	155-2163.001	CABLE ASY., RG-316, W1988
3	1	043-3278.002	BLADE, TOP, W5095
2	1	043-3277.002	BLADE, SWIVEL BASE, W5095
1	1	043-3276.001	BASE, RADOME SWIVEL, W1945

<p>THIRD ANGLE PROJECTION</p>	<p>UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES TOLERANCES: DECIMALS ANGLES XXX .XX .XX * .1°</p> <p>XXX .XX .XX BREAK ALL EDGES 2RD MAX REMOVE ALL BURRS DO NOT SCALE DRAWING</p>	APPROVALS	DATE
		<p>DRAWN BY: WINZHU</p> <p>CHECKED BY:</p> <p>DESIGN ENGR:</p> <p>MECHANICAL ENGR:</p> <p>MP&PROCESS ENGR: STENAGEL</p> <p>PROGRAM/PRODUCT MGR:</p> <p>QUALITY ENGR: BROTHERTON</p>	20160307
<p>CONFIDENTIAL AND PROPRIETARY INFORMATION</p> <p>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.</p>		<p>THIS IS A ROHS COMPLIANT COMPONENT/PRODUCT. ALL ENGINEERING CHANGES MUST MAKE PRIOR APPROVAL BY THE DESIGN CENTER.</p>	

Pulse Electronics Vancouver, Washington

TITLE: **ANTENNA, W5095**

SIZE	CAGE CODE	DWG. NO.	REV
B		W5095	10
SCALE: 1:1	VIEW(S)	WEIGHT	CAD FILE: W5095.5LDA3M

SHEET 1 OF 2

Issue: 1634

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.



Description: MULTI BAND SWIVEL MOUNT DIPOLE, TNC SPIN CONNECTOR 698-960&1447-1510&1710-2690MHz

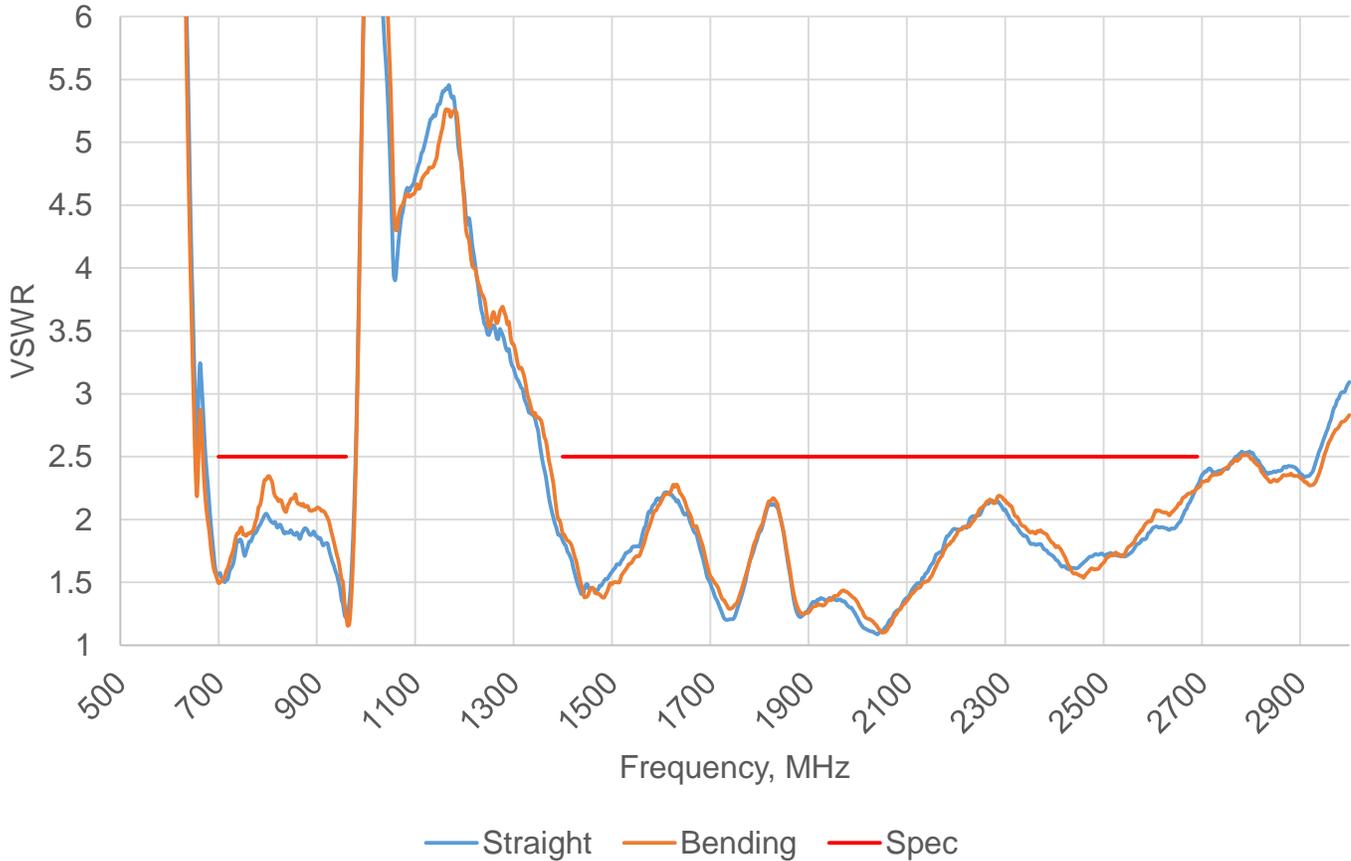
Series: Blade Antenna

PART NUMBER: W5095X

OTHER SPECIFICATIONS

VSWR

Efficiency vs Frequency measured in free space
W5095 measured in PSU



Issue: 1634

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.

Description: MULTI BAND SWIVEL MOUNT DIPOLE, TNC SPIN CONNECTOR 698-960&1447-1510&1710-2690MHz

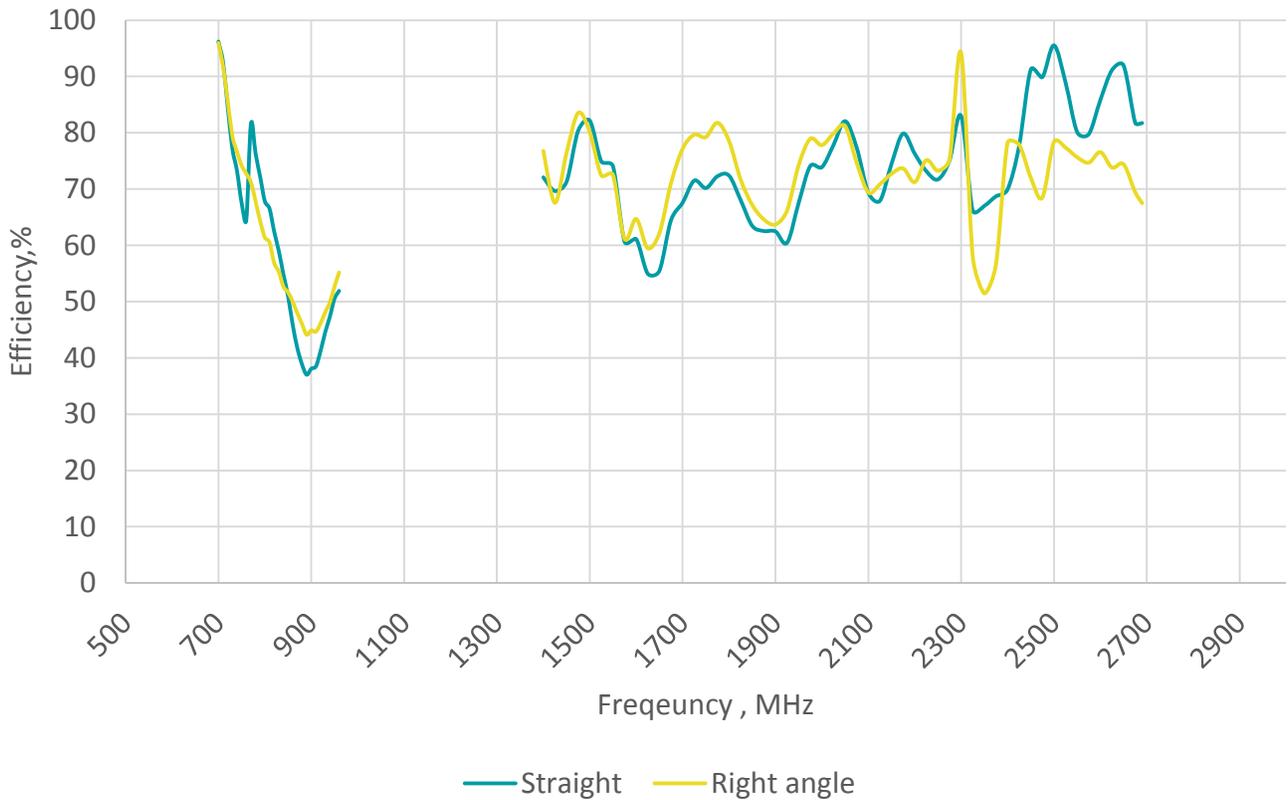
Series: Blade Antenna

PART NUMBER: W5095X

CHARTS

Efficiency

Efficiency vs Frequency measured in free space
W5090 measured in PSU



Issue: 1634

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.

Description: MULTI BAND SWIVEL MOUNT DIPOLE, TNC SPIN CONNECTOR 698-960&1447-1510&1710-2690MHz

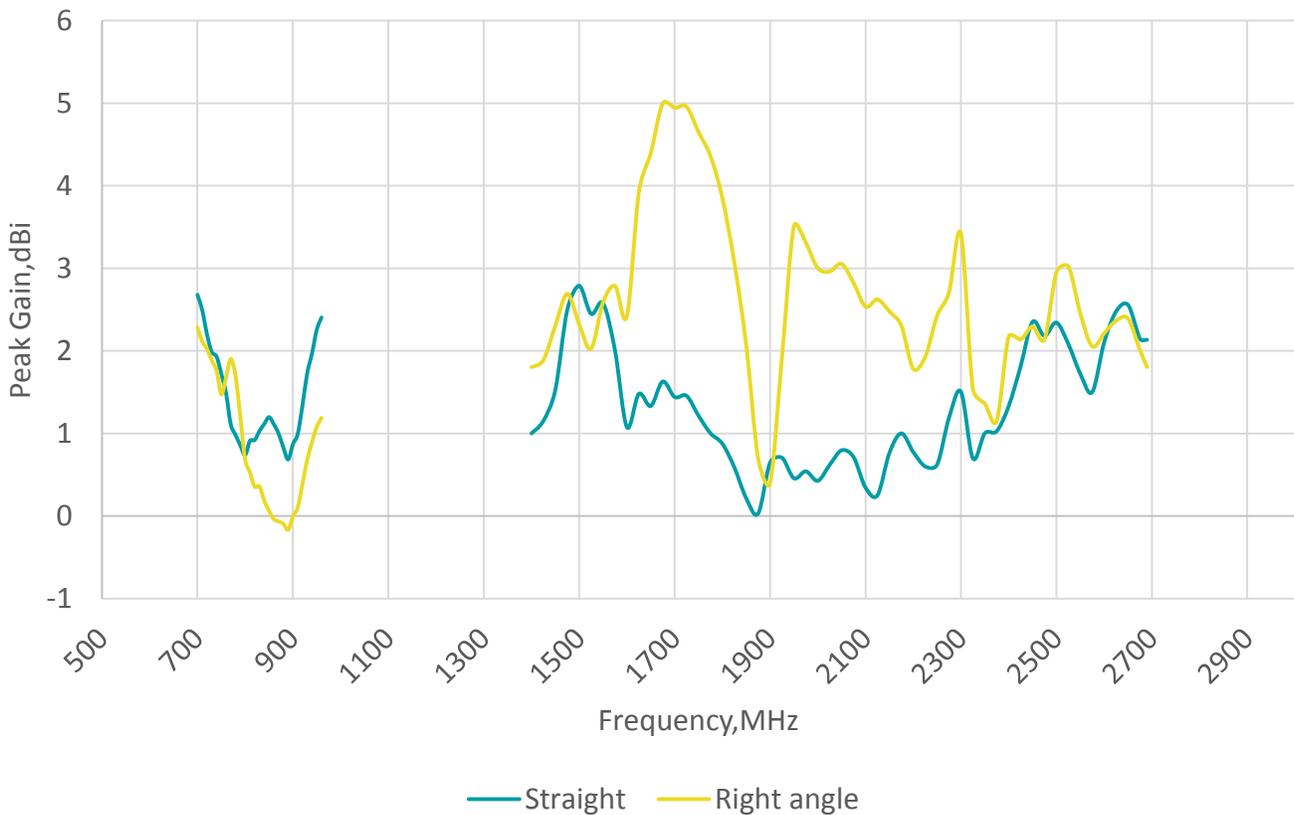
Series: Blade Antenna

PART NUMBER: W5095X

CHARTS

Peak Gain

Peak Gain vs Frequency measured in free space
W5095 measured in PSU



Issue: 1634

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

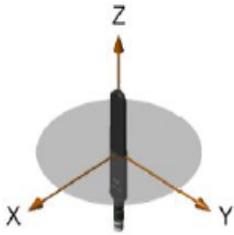
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything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

Description: MULTI BAND SWIVEL MOUNT DIPOLE, TNC SPIN CONNECTOR 698-960&1447-1510&1710-2690MHz

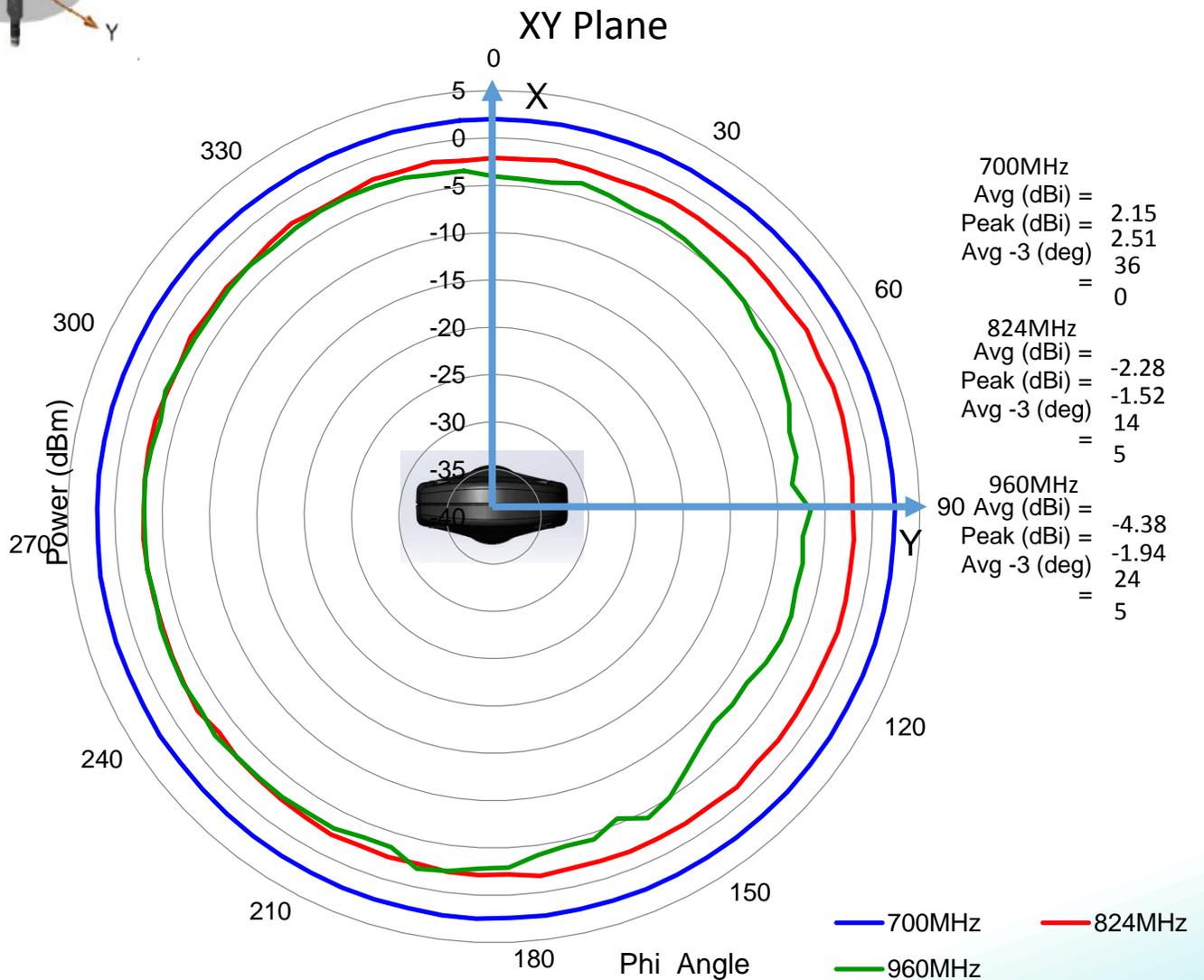
Series: Blade Antenna

PART NUMBER: W5095X

CHARTS



Gain Plots



Issue: 1634

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.

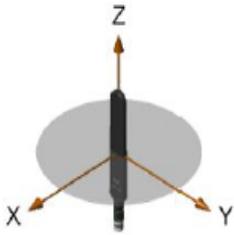


Description: MULTI BAND SWIVEL MOUNT DIPOLE, TNC SPIN CONNECTOR 698-960&1447-1510&1710-2690MHz

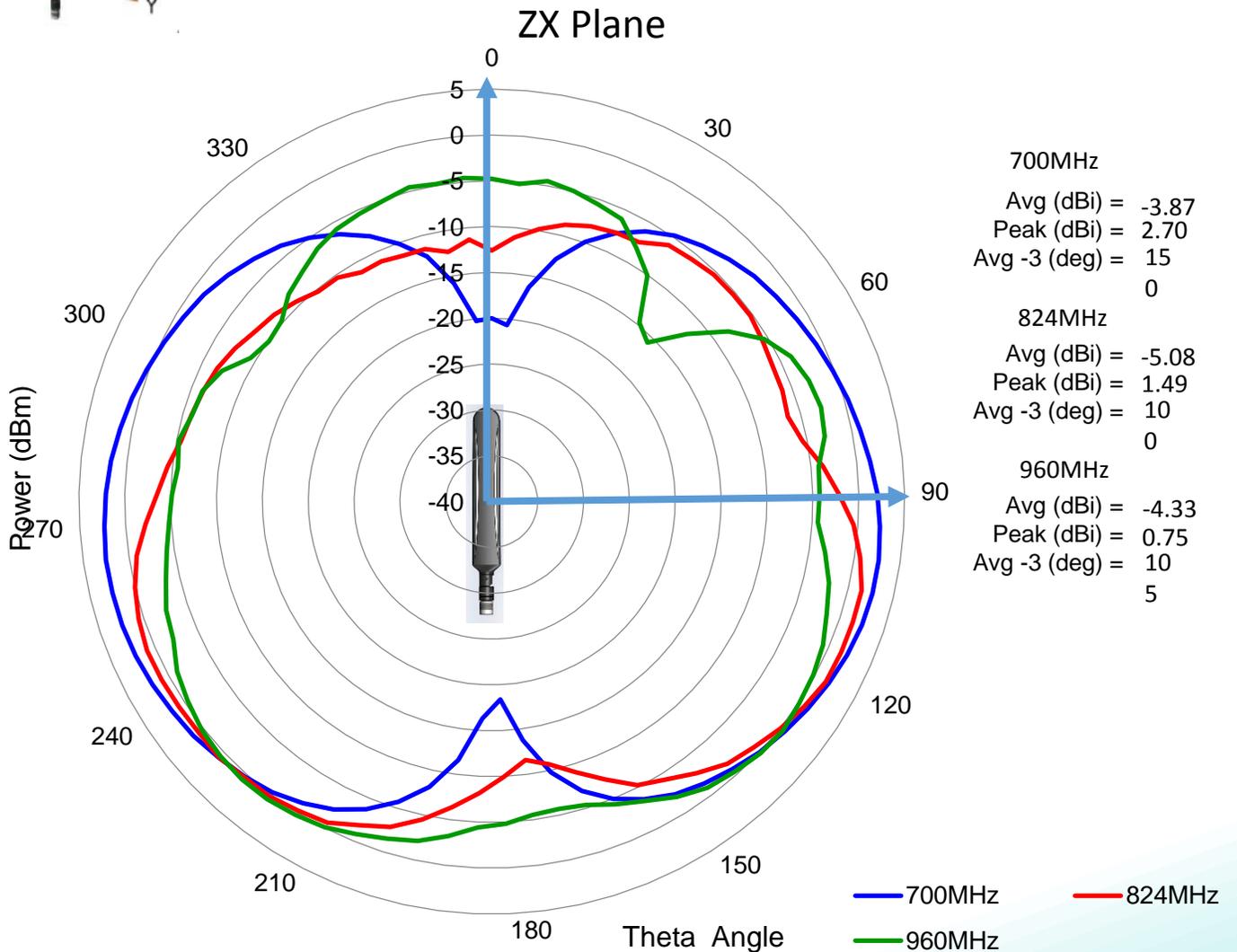
Series: Blade Antenna

PART NUMBER: W5095X

CHARTS



Gain Plots



Issue: 1634

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

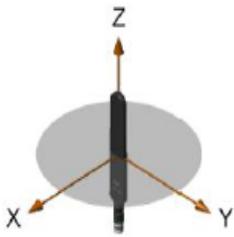
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything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

Description: MULTI BAND SWIVEL MOUNT DIPOLE, TNC SPIN CONNECTOR 698-960&1447-1510&1710-2690MHz

Series: Blade Antenna

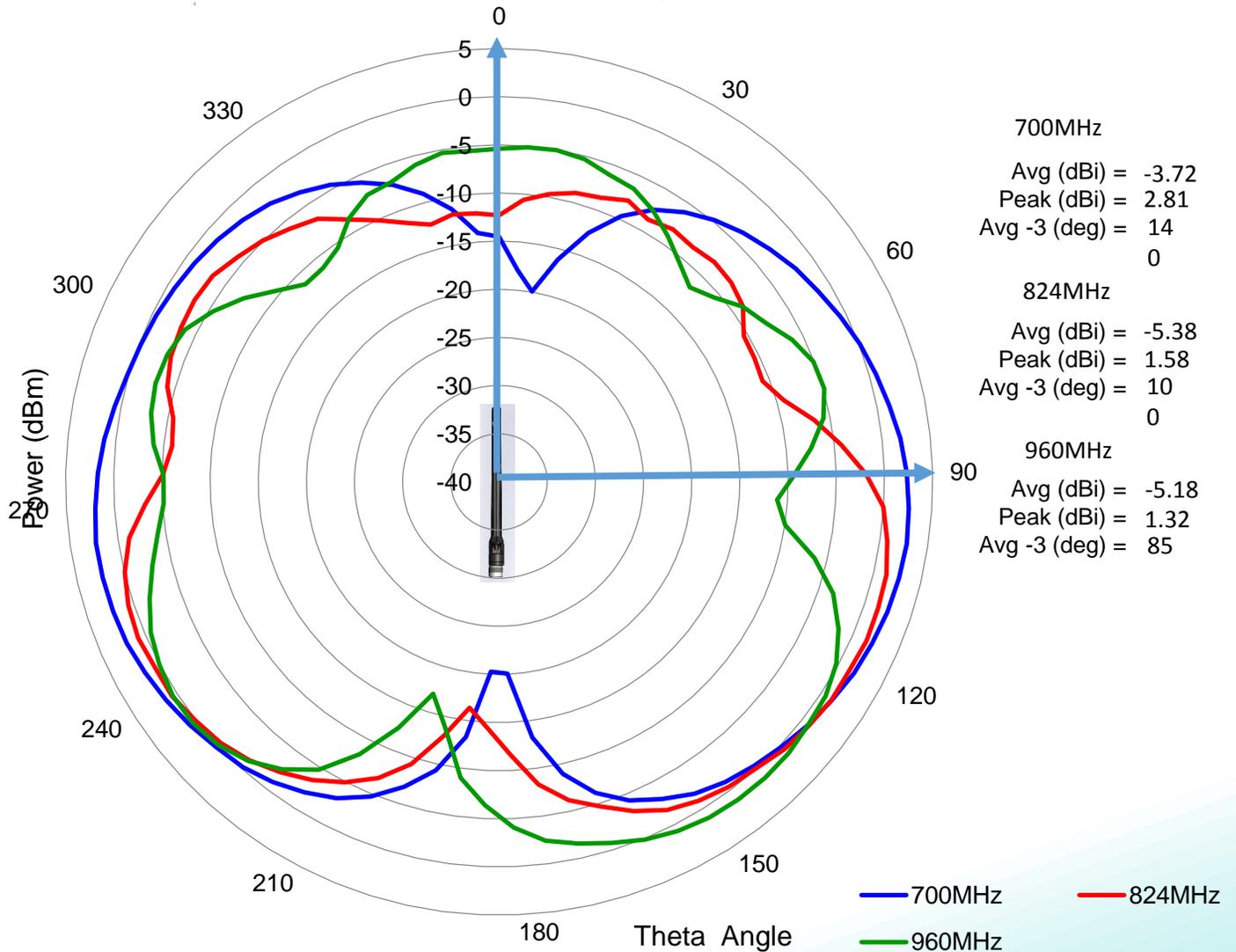
PART NUMBER: W5095X

CHARTS



Gain Plots

YZ Plane



Issue: 1634

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.

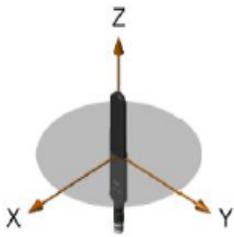


Description: MULTI BAND SWIVEL MOUNT DIPOLE, TNC SPIN CONNECTOR 698-960&1447-1510&1710-2690MHz

Series: Blade Antenna

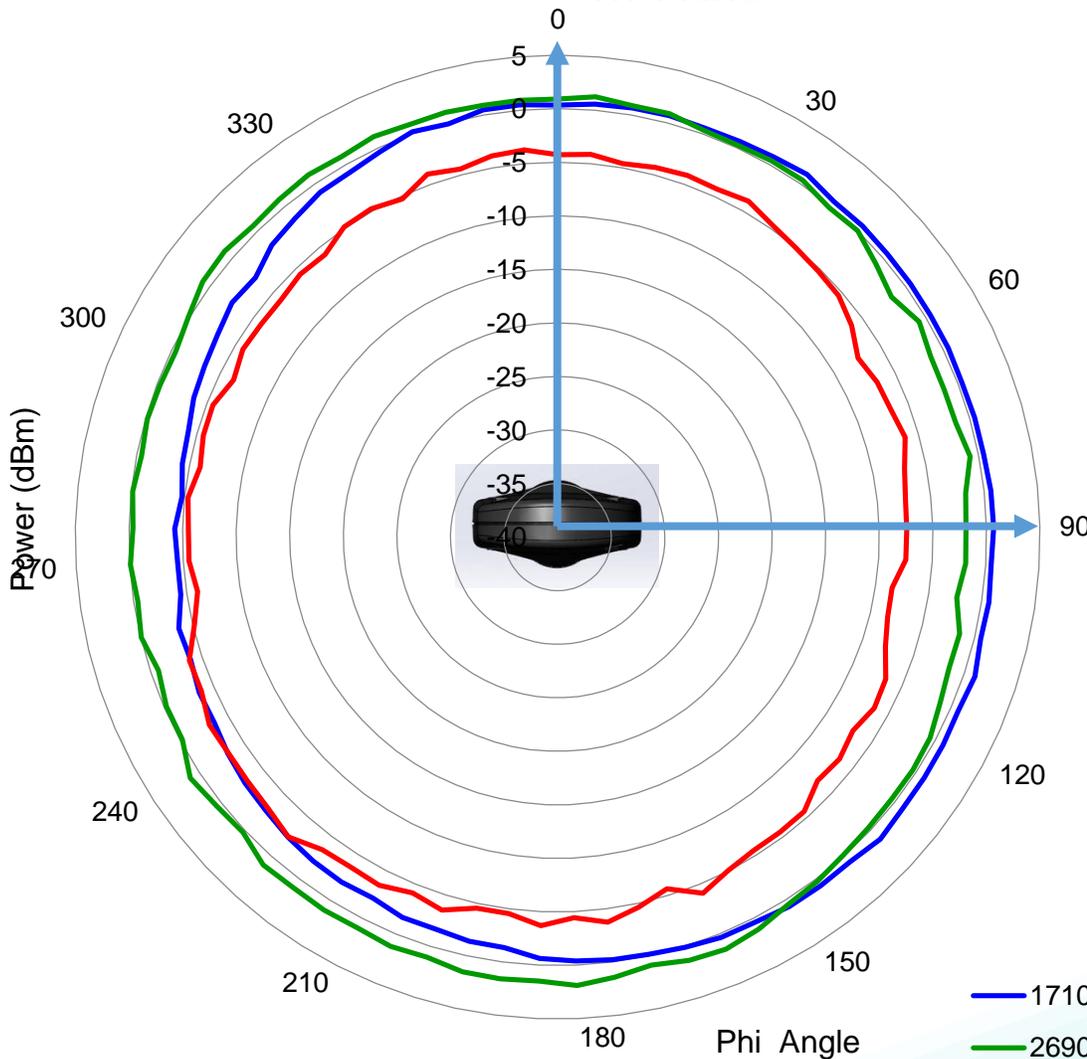
PART NUMBER: W5095X

CHARTS



Gain Plots

XY Plane



1710MHz
Avg (dBi) = -0.86
Peak (dBi) = 1.24
Avg -3 (deg) = 245
2170MHz
Avg (dBi) = -5.19
Peak (dBi) = -2.39
Avg -3 (deg) = 190
2690MHz
Avg (dBi) = 0.18
Peak (dBi) = 1.89
Avg -3 (deg) = 305

— 1710MHz — 2170MHz
— 2690MHz

Issue: 1634

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.

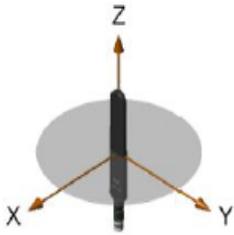


Description: MULTI BAND SWIVEL MOUNT DIPOLE, TNC SPIN CONNECTOR 698-960&1447-1510&1710-2690MHz

Series: Blade Antenna

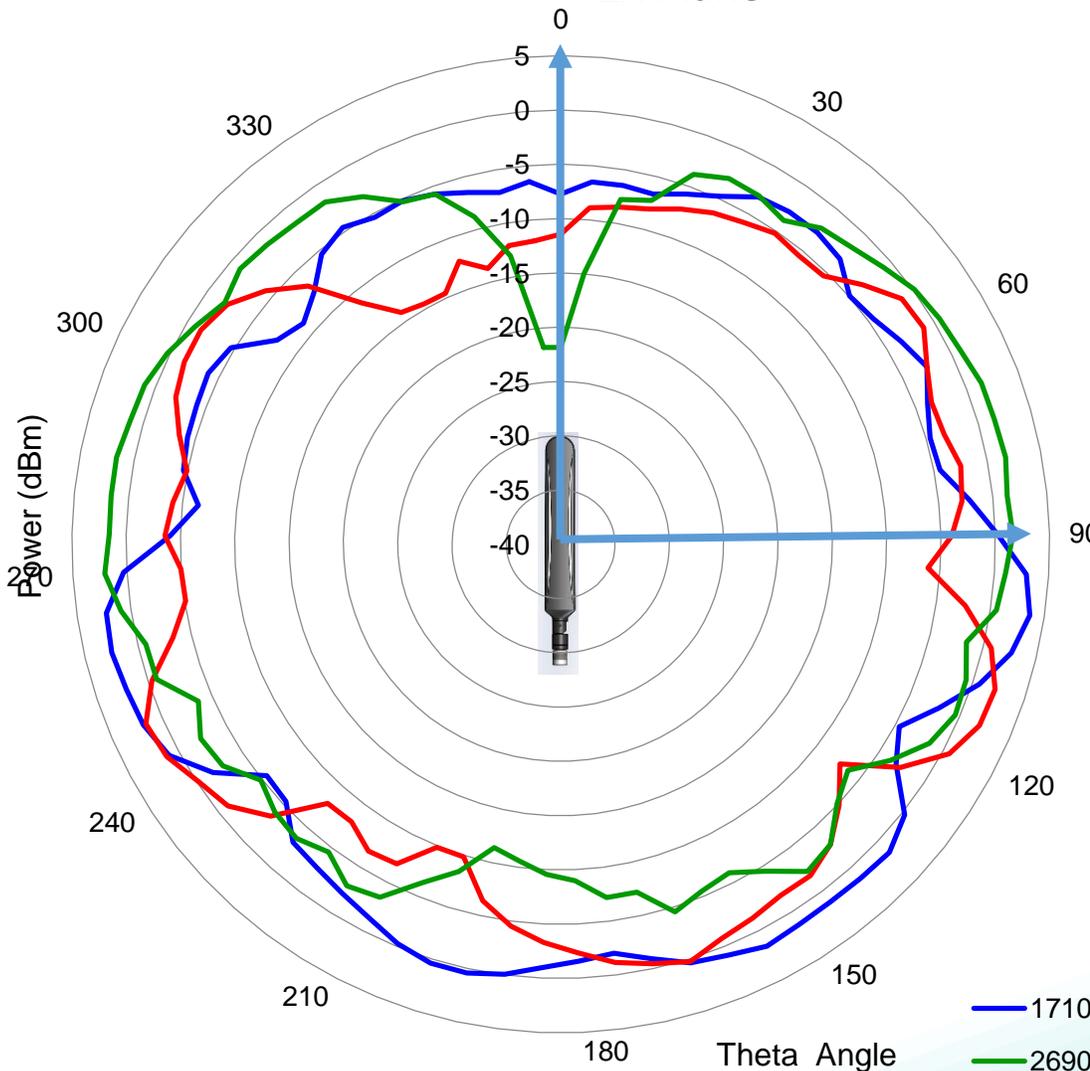
PART NUMBER: W5095X

CHARTS



Gain Plots

ZX Plane



1710MHz	Avg (dBi) = -2.68
	Peak (dBi) = 3.66
	Avg -3 (deg) = 65
2170MHz	Avg (dBi) = -4.81
	Peak (dBi) = 2.17
	Avg -3 (deg) = 50
2690MHz	Avg (dBi) = -3.86
	Peak (dBi) = 2.04
	Avg -3 (deg) = 11
	5

— 1710MHz — 2170MHz
— 2690MHz

Issue: 1634

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.

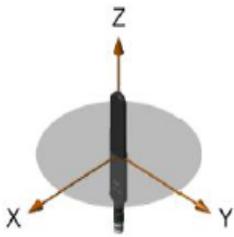


Description: MULTI BAND SWIVEL MOUNT DIPOLE, TNC SPIN CONNECTOR 698-960&1447-1510&1710-2690MHz

Series: Blade Antenna

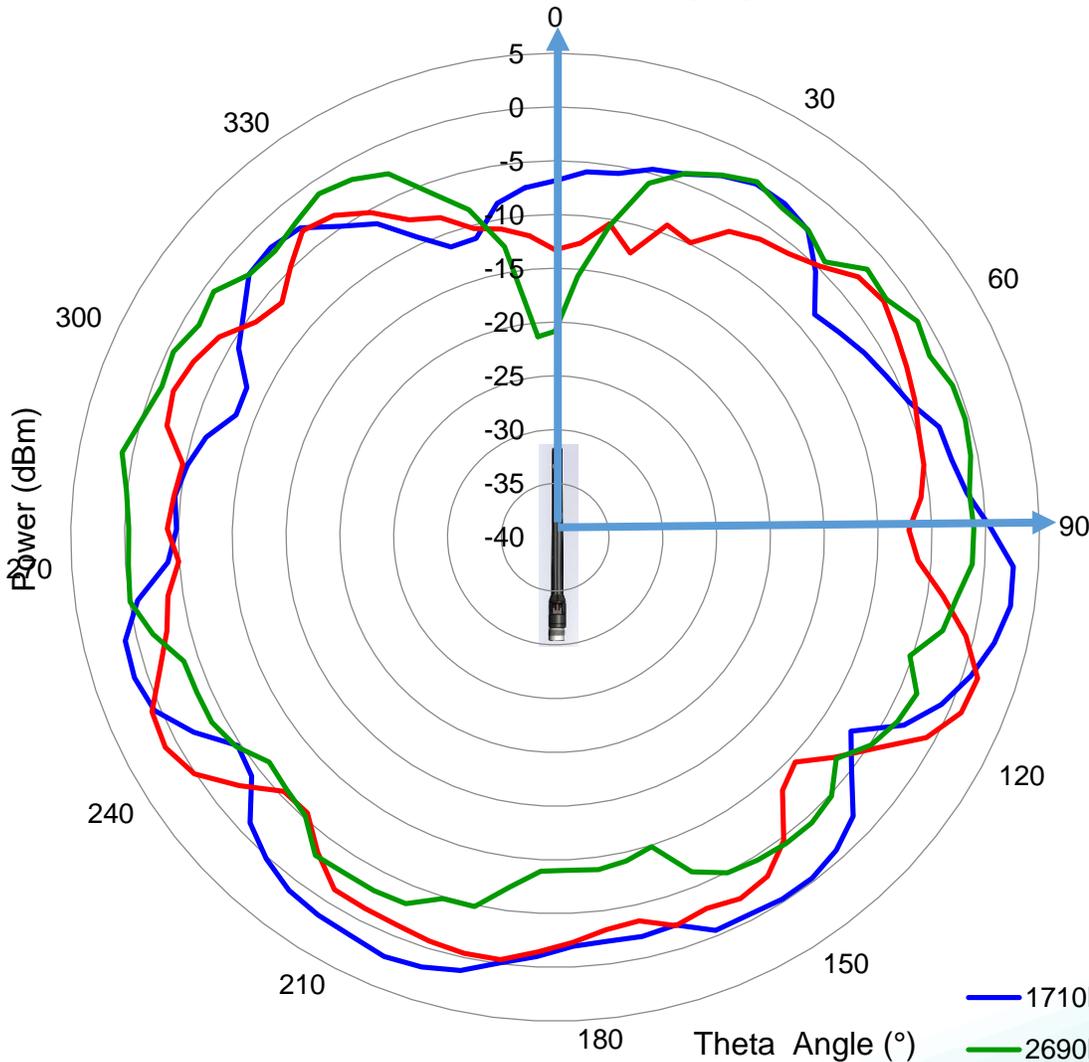
PART NUMBER: W5095X

CHARTS



Gain Plots

YZ Plane



1710MHz	Avg (dBi) = -3.10
	Peak (dBi) = 2.79
	Avg -3 (deg) = 75
2170MHz	Avg (dBi) = -4.63
	Peak (dBi) = 1.39
	Avg -3 (deg) = 70
2690MHz	Avg (dBi) = -4.56
	Peak (dBi) = 1
	Avg -3 (deg) = 11
	0

— 1710MHz — 2170MHz
— 2690MHz

Issue: 1634

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.



Description: MULTI BAND SWIVEL MOUNT DIPOLE, TNC
SPIN CONNECTOR 698-960&1447-1510&1710-2690MHz

Series: Blade Antenna

PART NUMBER: W5095X

PACKAGING

1PCS/PE bag

100PCS/Carton box



Issue: 1634

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.