

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

Series: Blade Antenna

PART NUMBER: **W5095X**



Features:

- 698-2690MHz
- Gain 1-2.5dBi
- IP65
- Total length 229mm (straight)
- Total length 197.5mm (bent)
- Width 30.5mm
- Connector options:
 - W5095 TNC male
 - W5095K SMA male

Applications:

- LTE radios
- 2G/3G/4G radios
- Gateways, set top boxes, security
- Optimized for straight and 90deg bent positions

Issue: 1643

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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 & 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



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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)	
Connector Options	W5095	TNC male connector
	W5095K	SMA male connector

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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

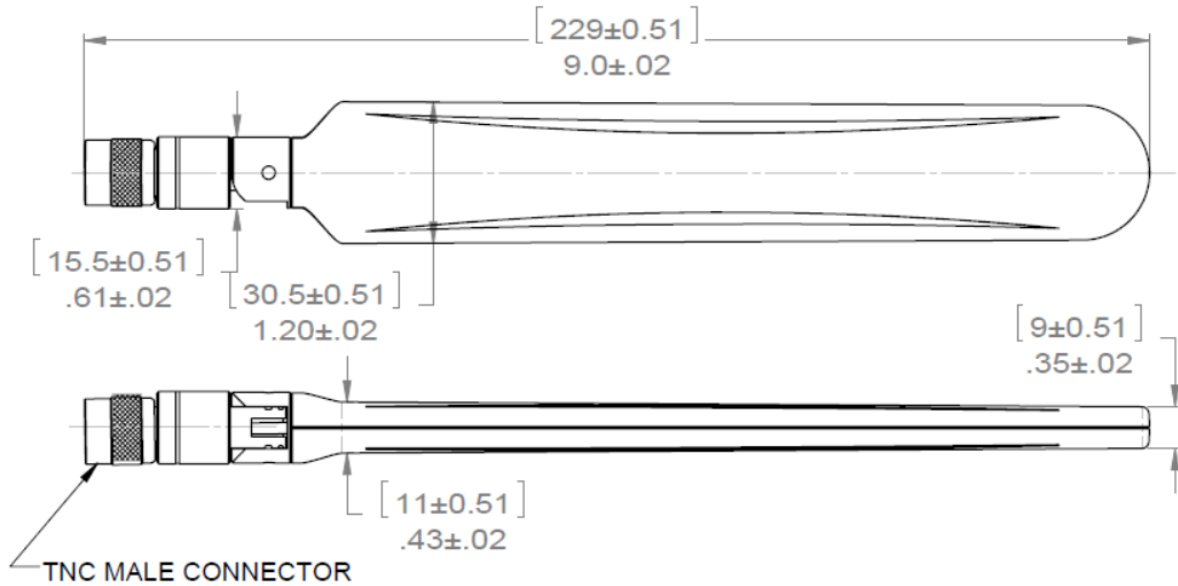
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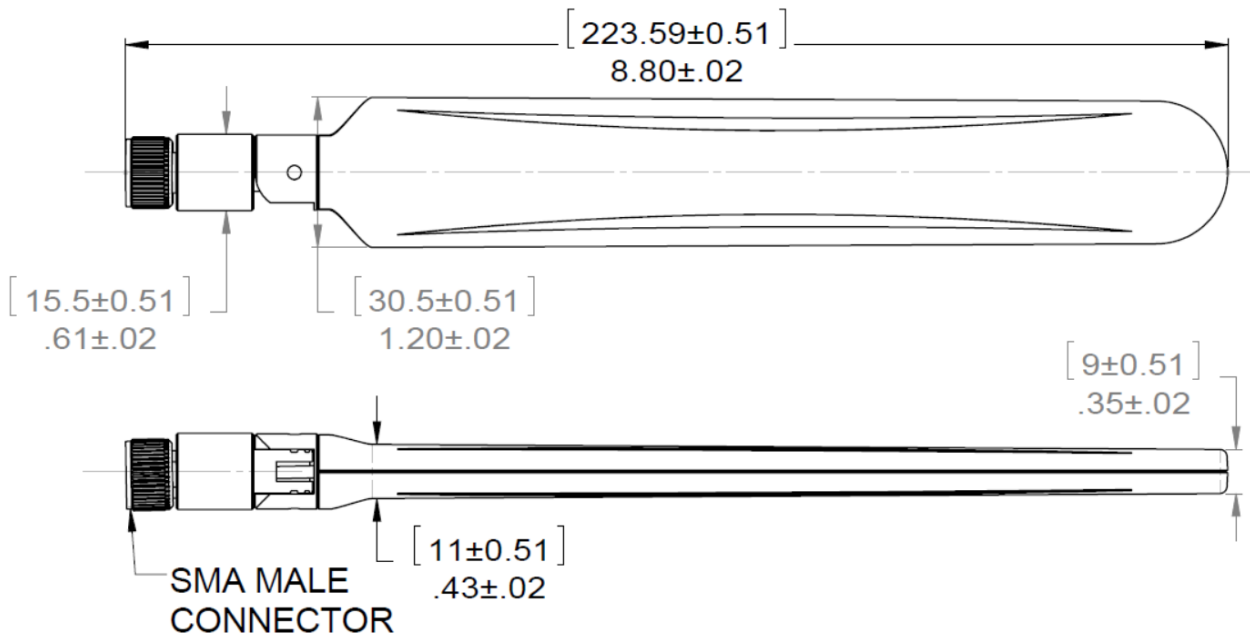
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MECHANICAL DRAWING

W5095 TNC male connector



W5095K SMA male connector



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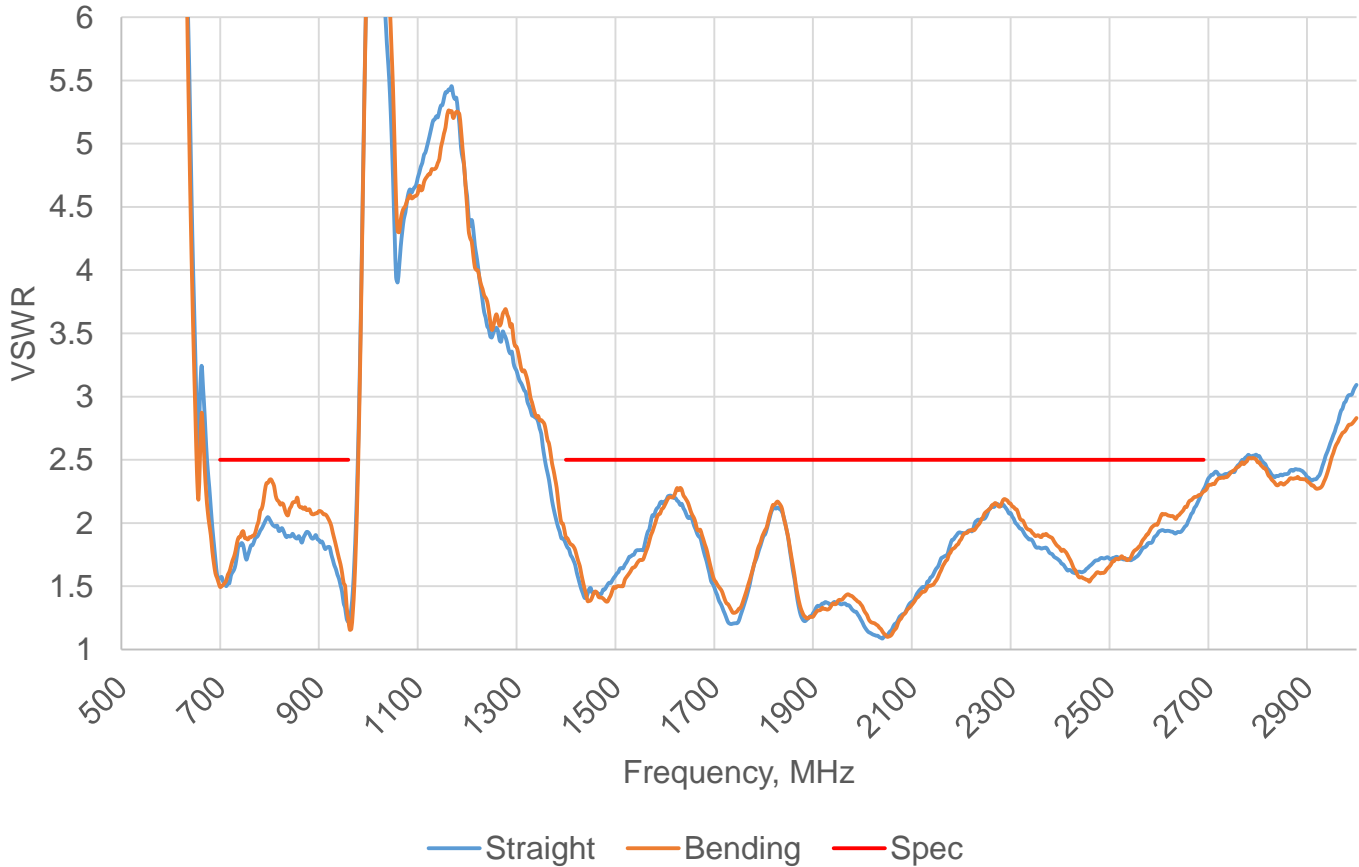
Series: Blade Antenna

PART NUMBER: W5095X

OTHER SPECIFICATIONS

VSWR

Efficiency vs Frequency measured in free space
W5095 measured in PSU



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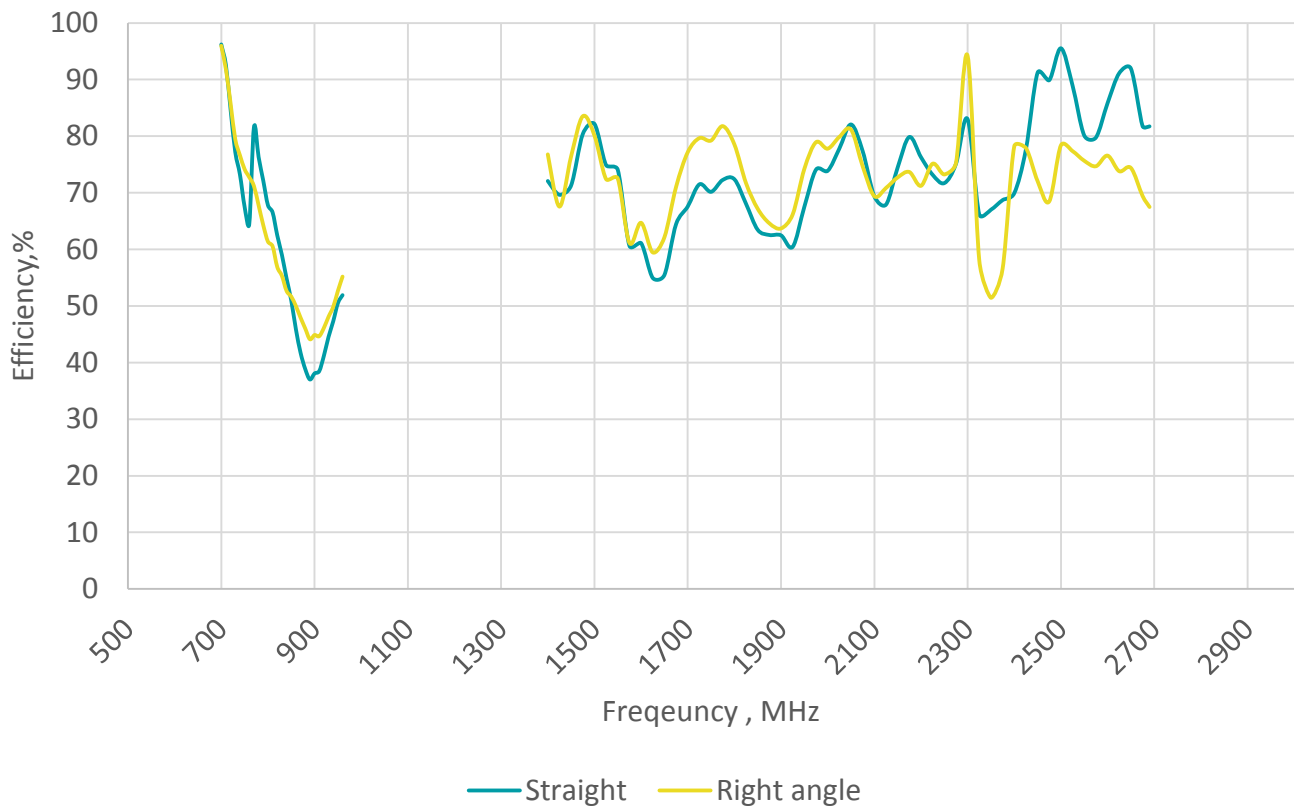
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CHARTS

Efficiency

Efficiency vs Frequency measured in free space
W5095 measured in PSU



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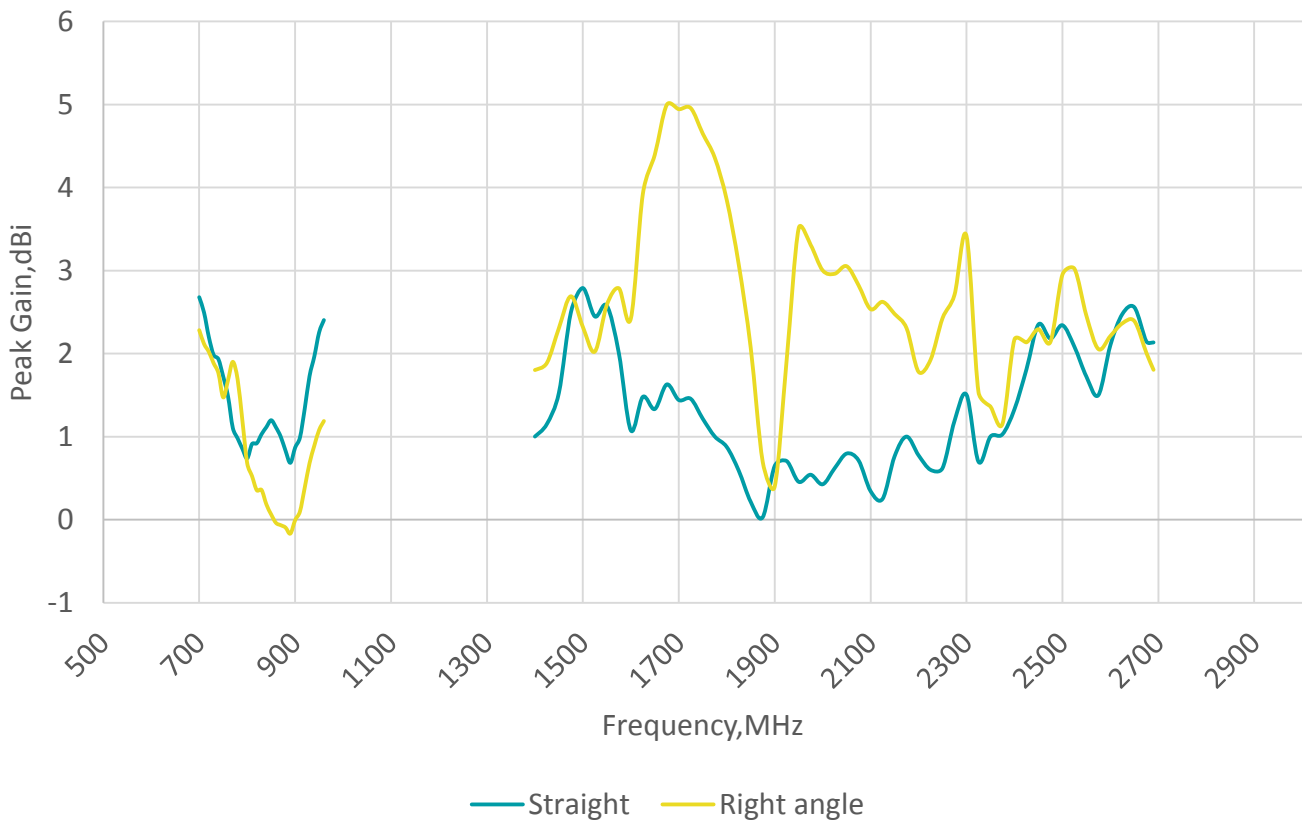
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CHARTS

Peak Gain

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



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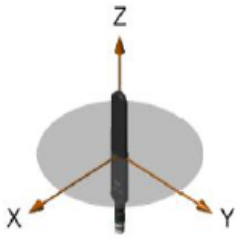
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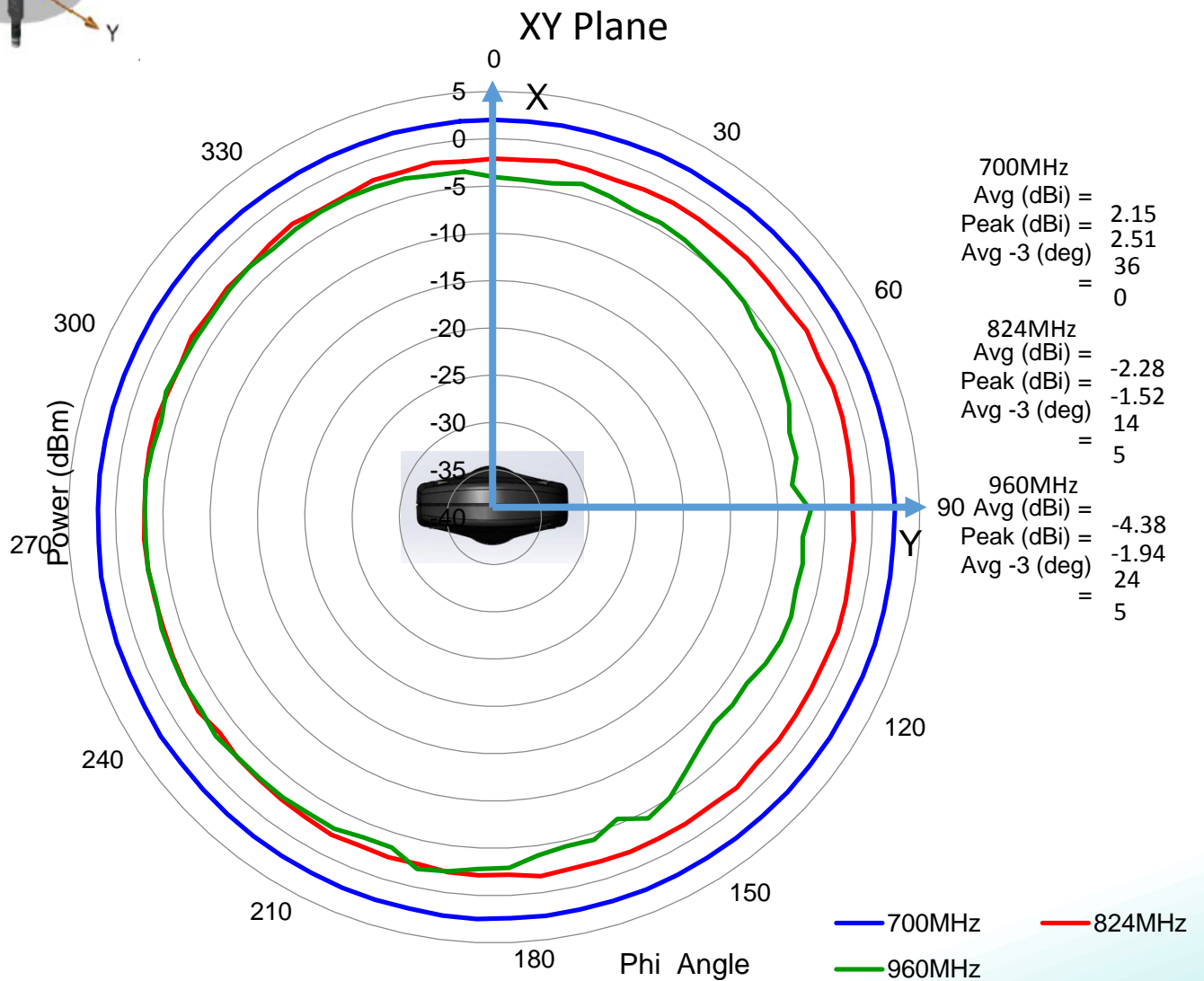
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CHARTS



Gain Plots



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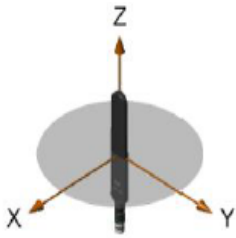


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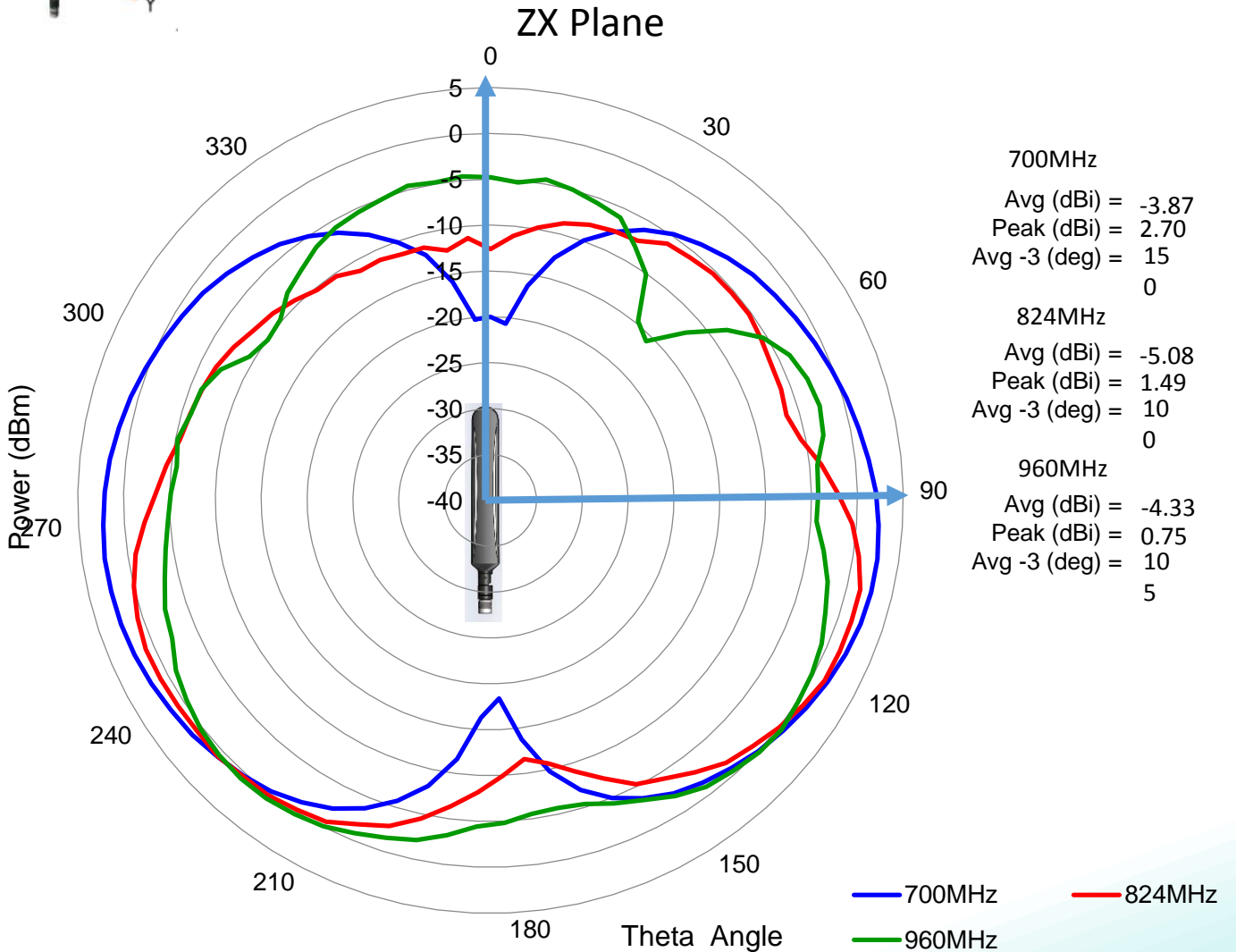
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CHARTS



Gain Plots



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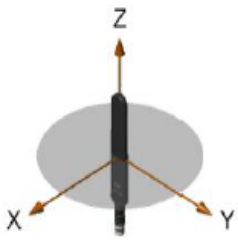
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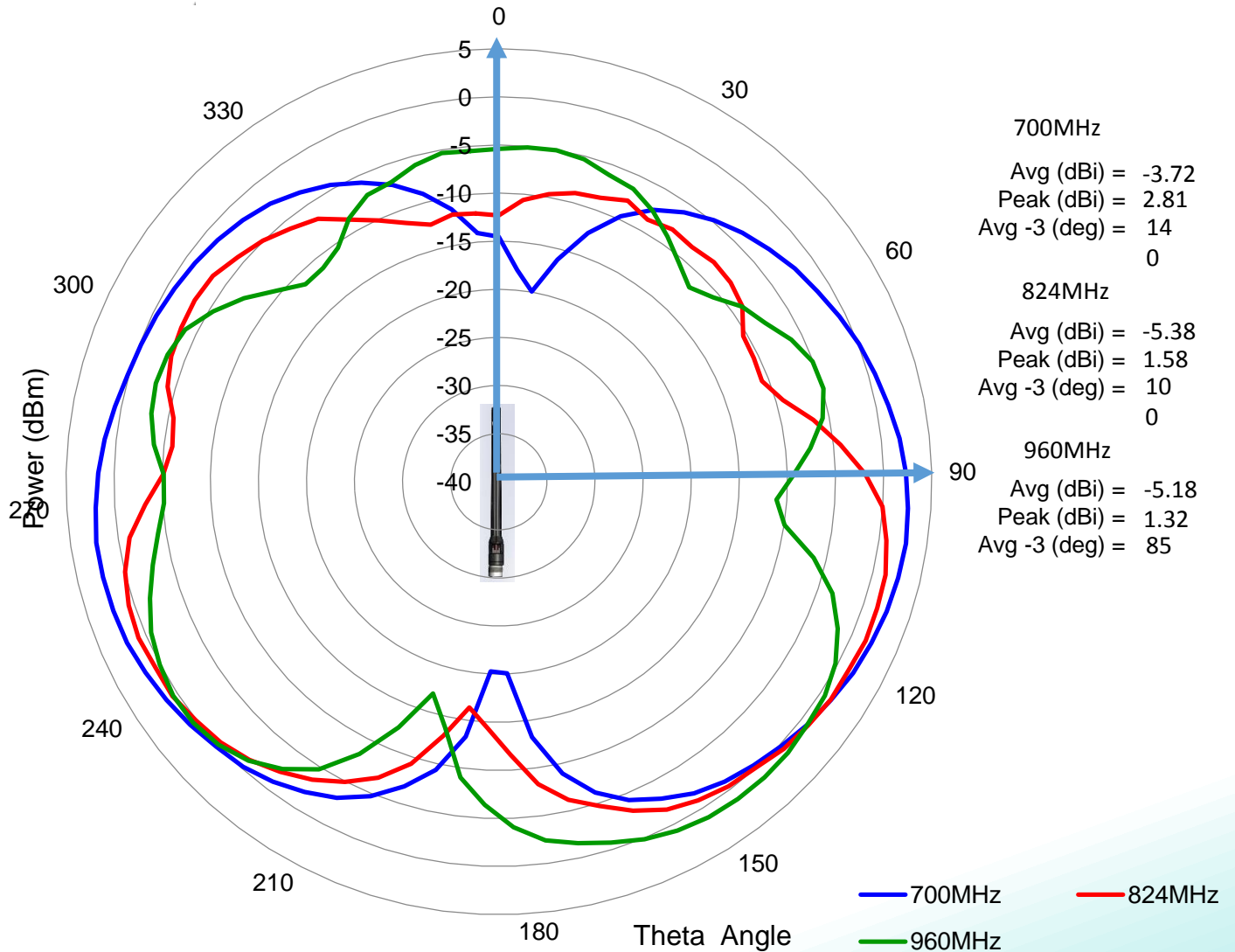
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CHARTS



Gain Plots

YZ Plane



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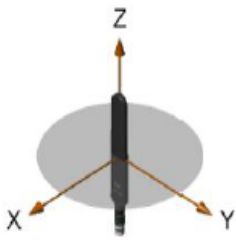


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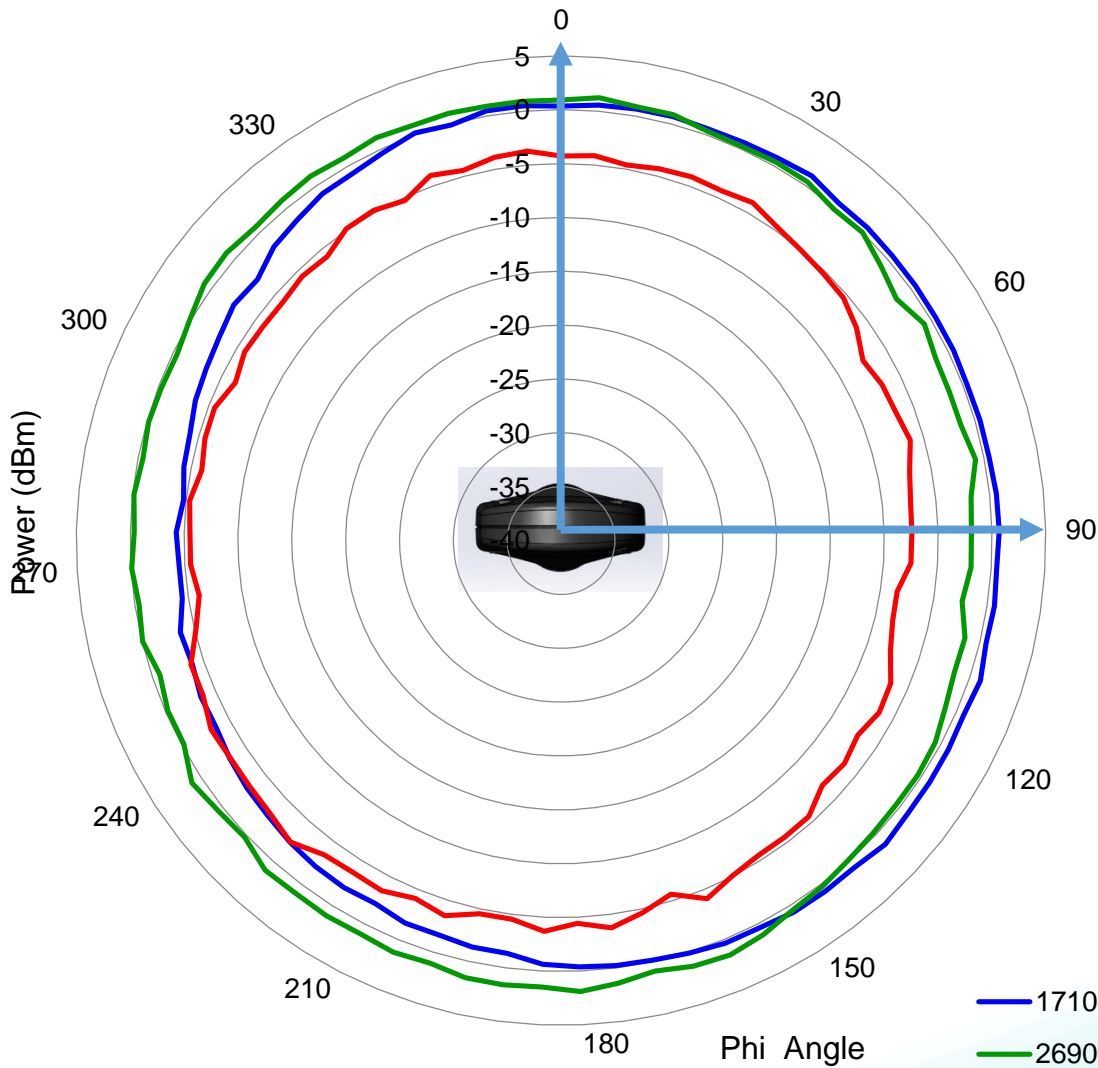
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CHARTS



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

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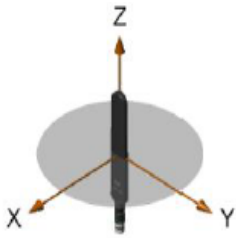


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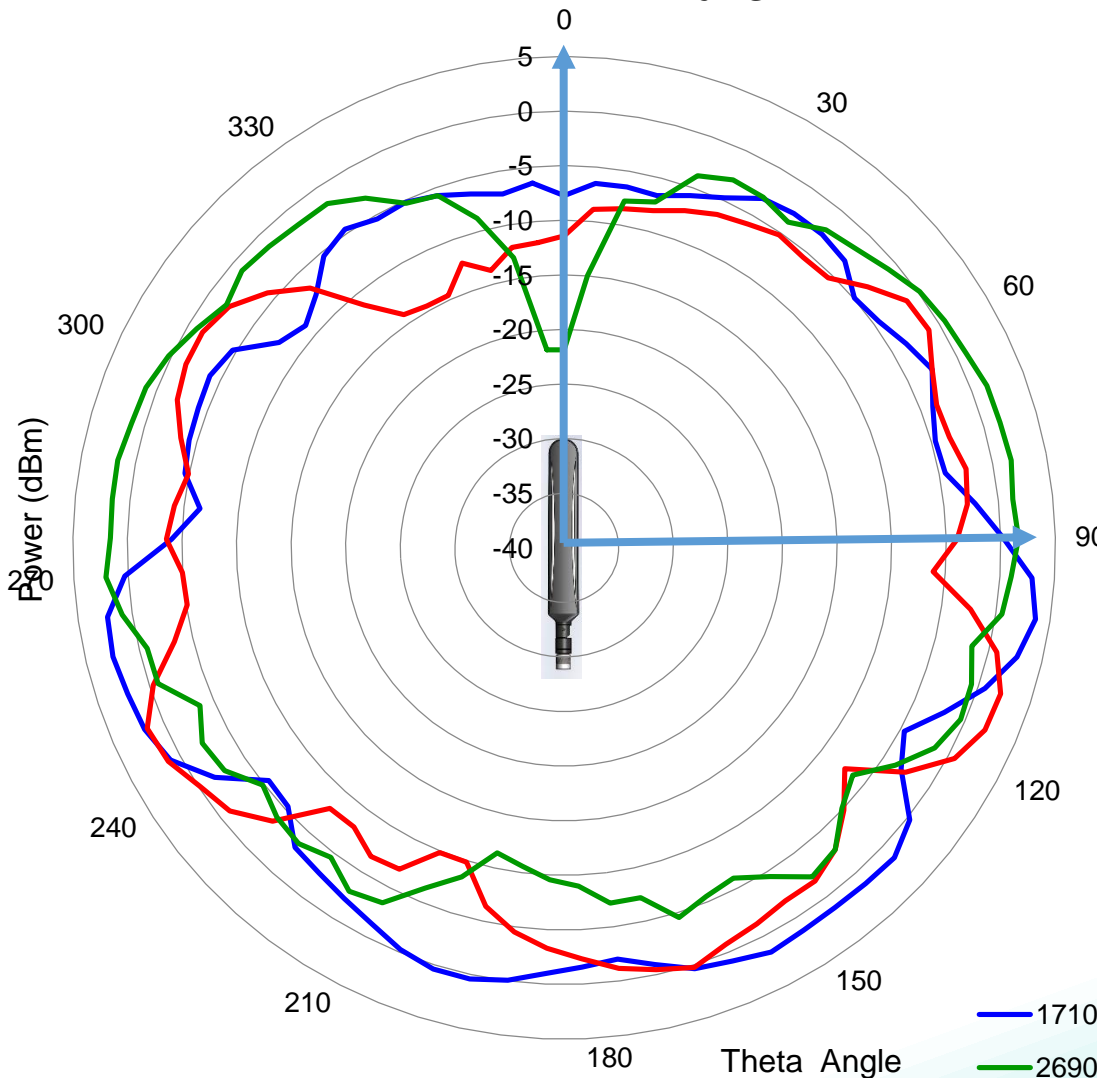
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CHARTS



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

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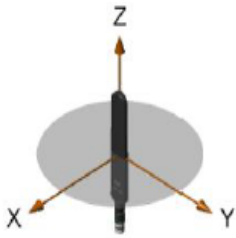


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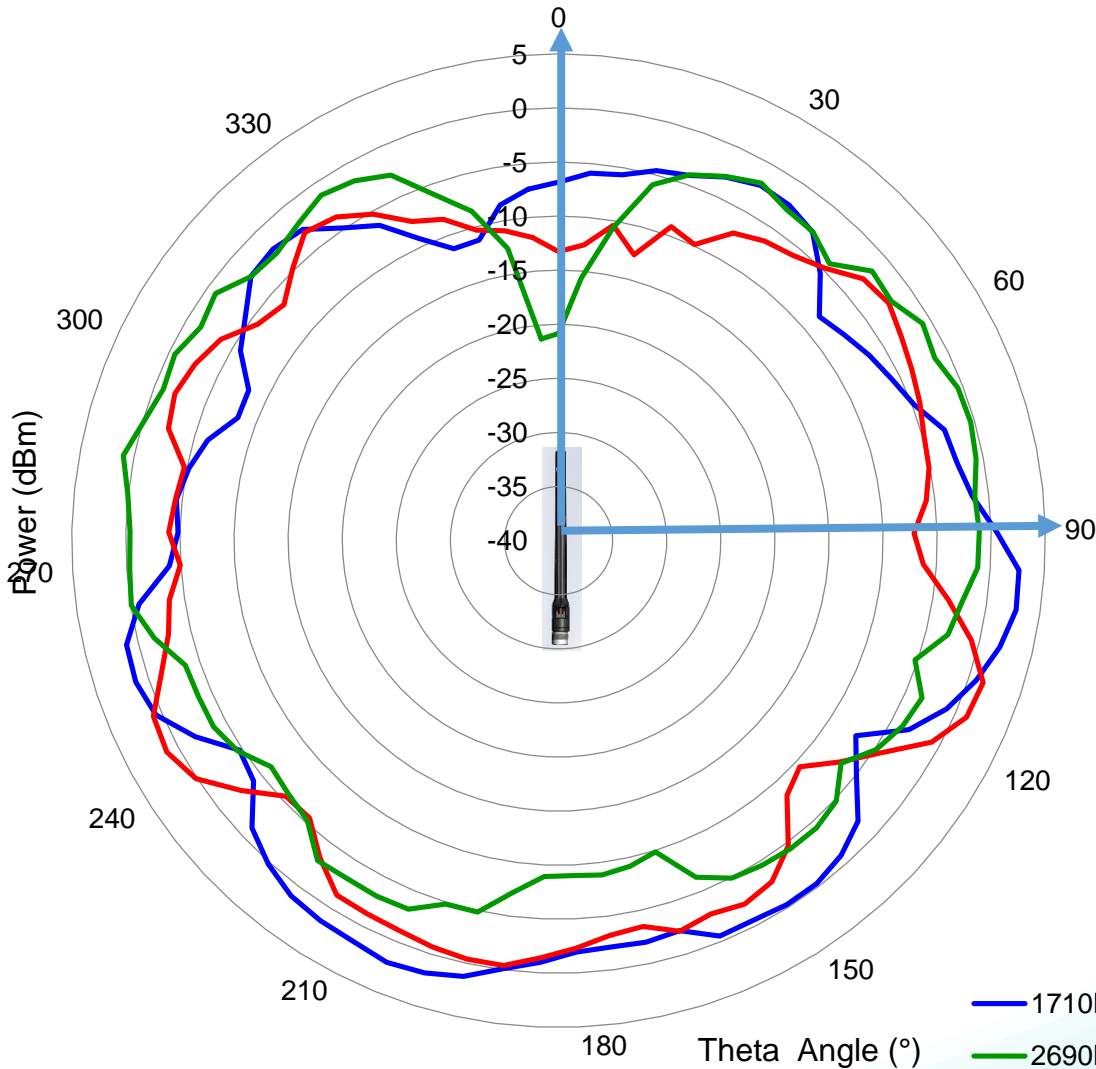
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CHARTS



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

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PACKAGING

1PCS/PE bag
100PCS/Carton box



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