

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

PART NUMBER: RDA698/2700-1-SSM



Features:

- 698-2690MHz
- Gain 1-2.5dBi
- IP65
- Total length 229mm (straight)
- Total length 197.5mm (bent)
- Width 30.5mm
- Connector: SMA-Male

Applications:

- LTE radios
- 2G/3G/4G radios
- Gateways, set top boxes, security
- Optimized for straight and 90deg bent positions
- Approved by all Major US Carriers – all 3G/4G/LTE bands: AT&T, Sprint, Verizon



Series: Blade Antenna

TECHNICAL DATA SHEET

Description: MULTI BAND SWIVEL MOUNT DIPOLE
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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	SMA-Male	

Approved by all Major US Modem Makers: CradlePoint, Sierra Wireless, etc.



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MECHANICAL SPECIFICATIONS

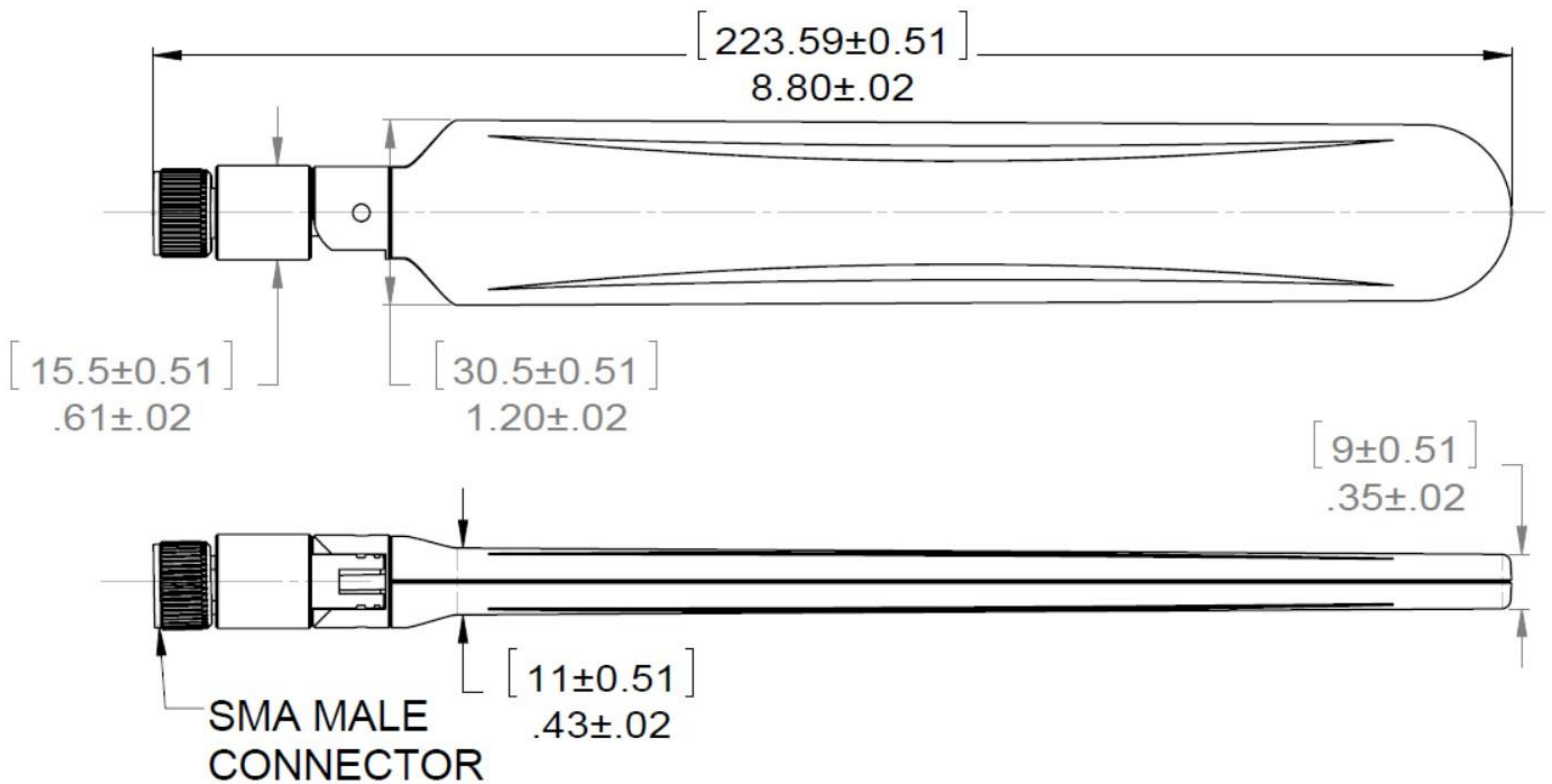
Plastic radome	ABS/PC
Color	Black
Flammability	UL94-V0
Ingress Protection	IP65
Weight	50 g
Wind-loading	100 mph
Overall Length	9[229] INCHES[mm]
Position	0°, 45° & 90°

ENVIRONMENTAL SPECIFICATIONS

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

MECHANICAL DRAWING

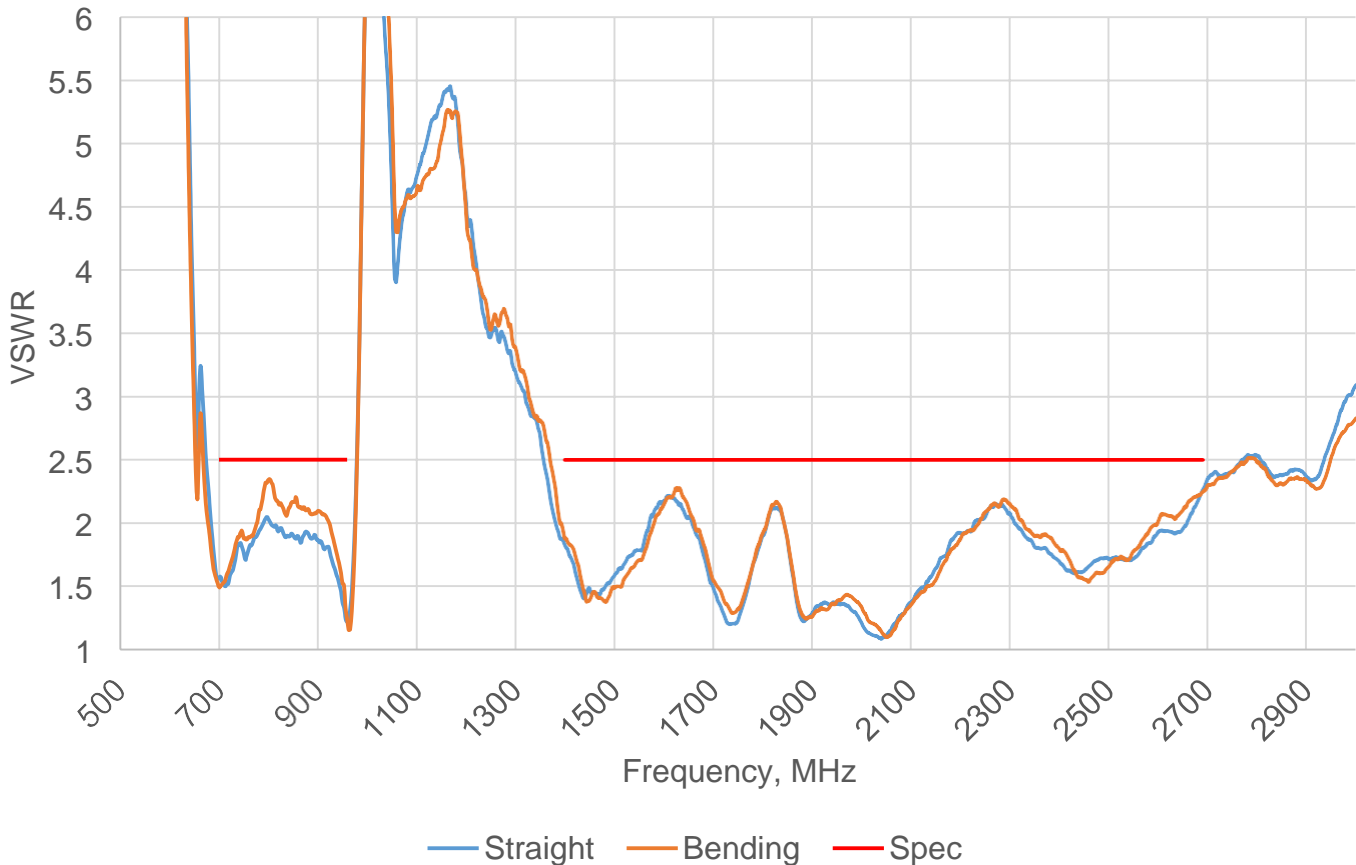
RDA698/2700-1-SSM SMA Male Connector



OTHER SPECIFICATIONS

VSWR

Efficiency vs Frequency measured in free space
RDA698/2700-1-SSM measured in PSU





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TECHNICAL DATA SHEET

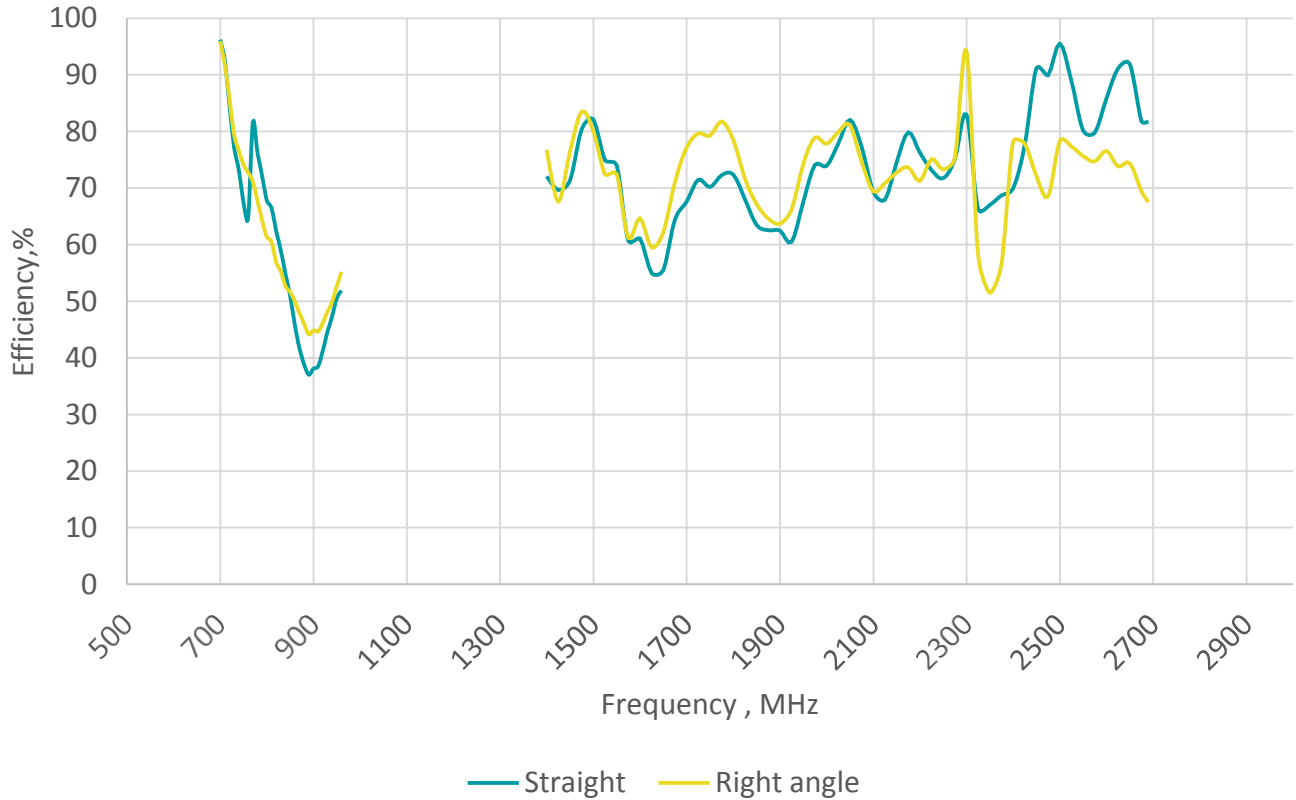
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CHARTS

Efficiency

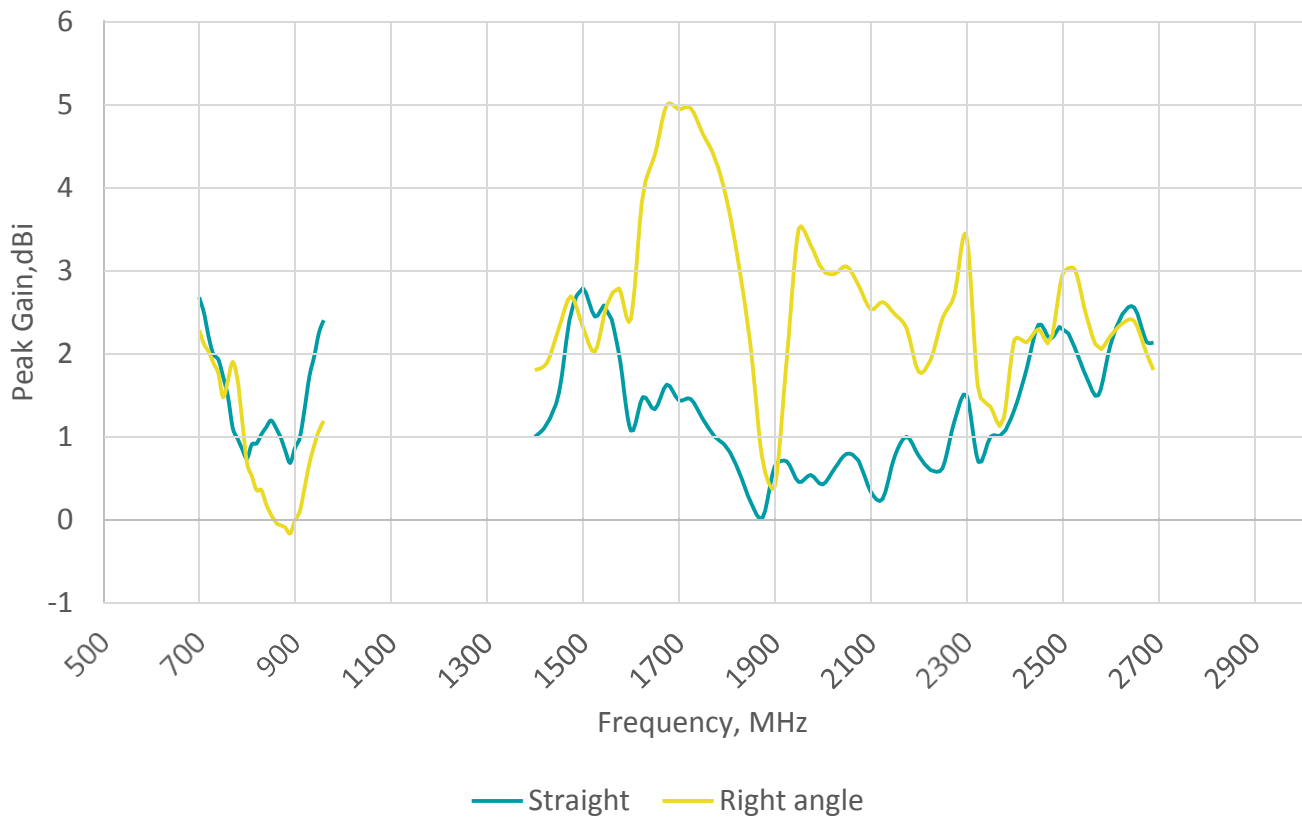
Efficiency vs Frequency measured in free space
RDA698/2700-1-SSM measured in PSU



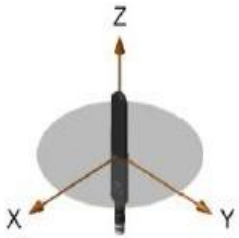
CHARTS

Peak Gain

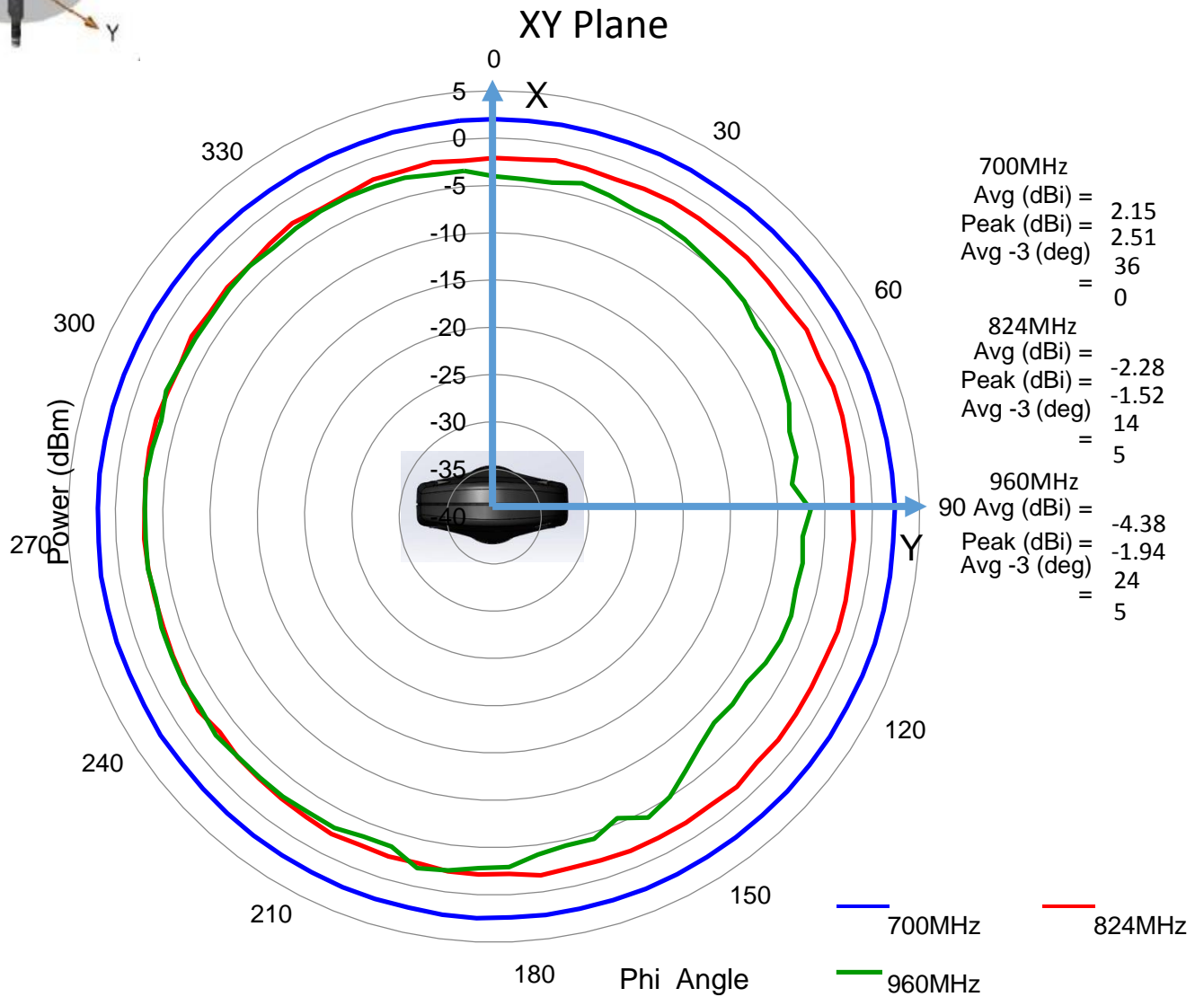
Peak Gain vs Frequency measured in free space
RDA698/2700-1-SSM measured in PSU



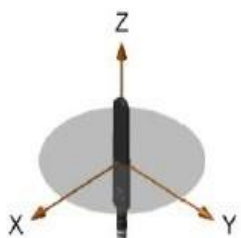
CHARTS



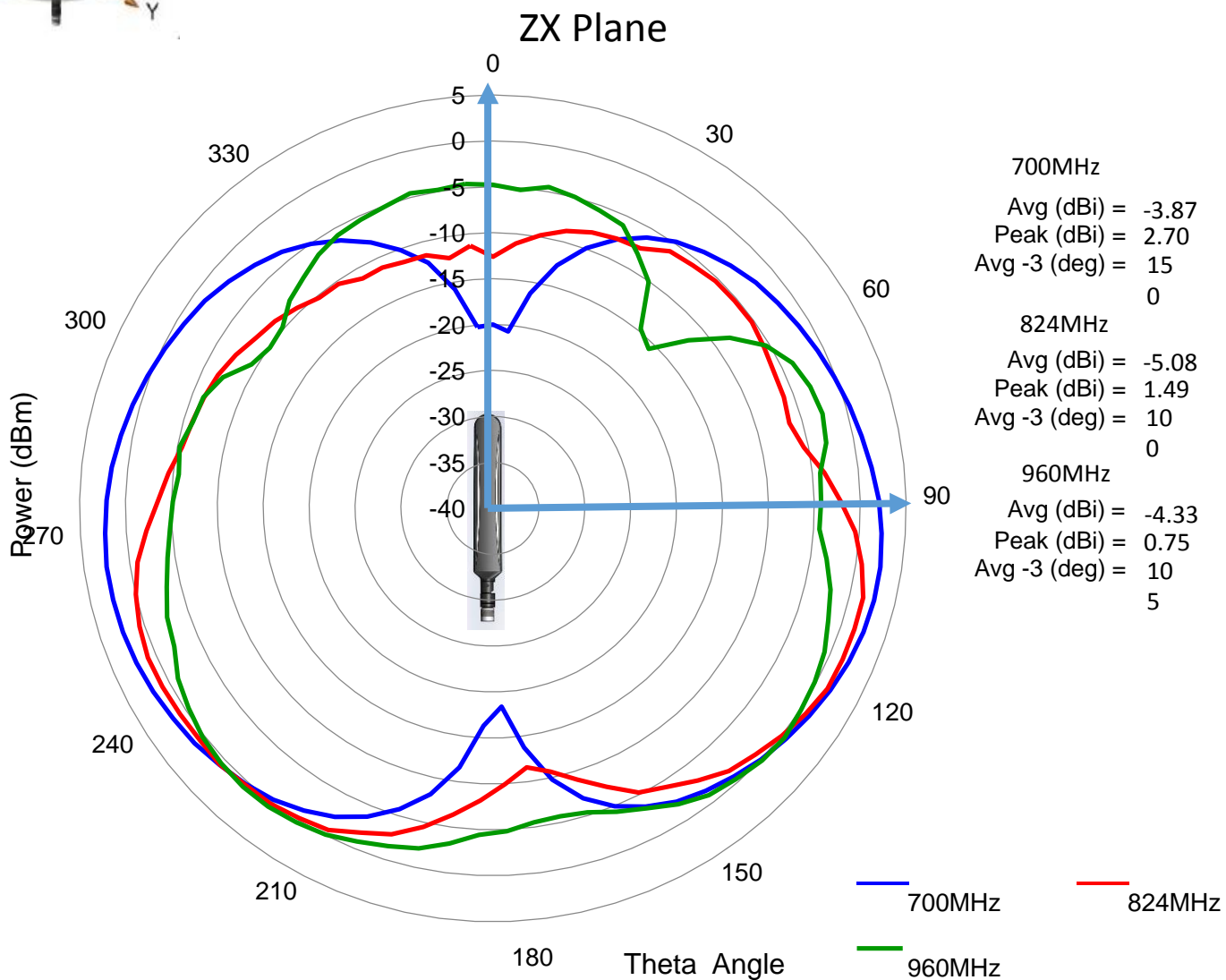
Gain Plots



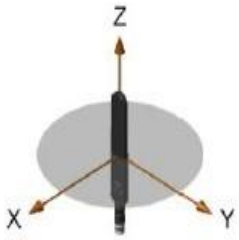
CHARTS



Gain Plots

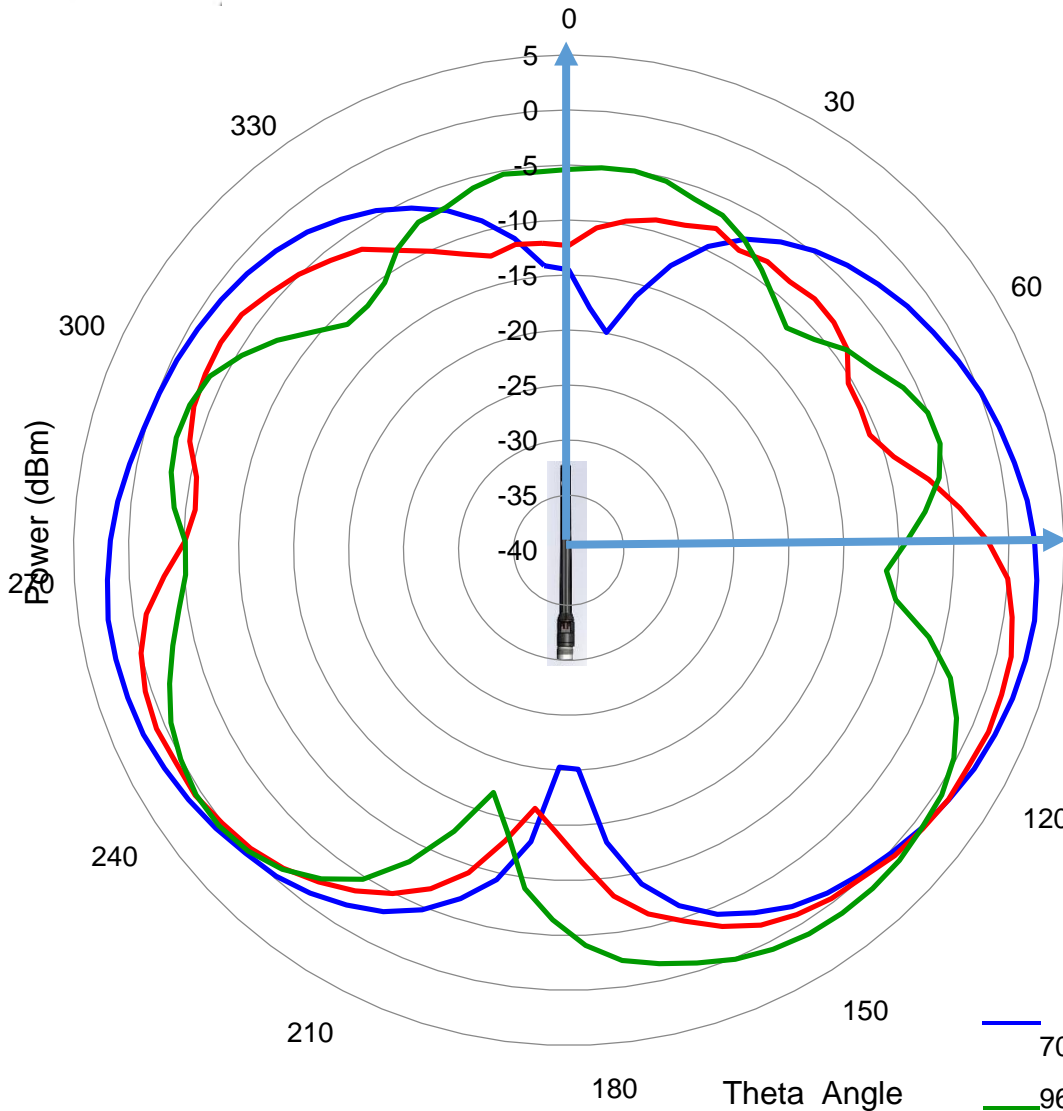


CHARTS

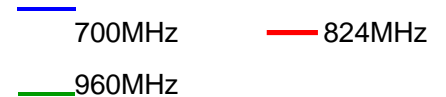


Gain Plots

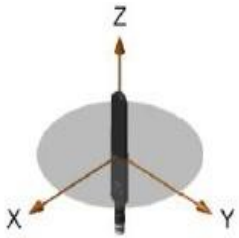
YZ Plane



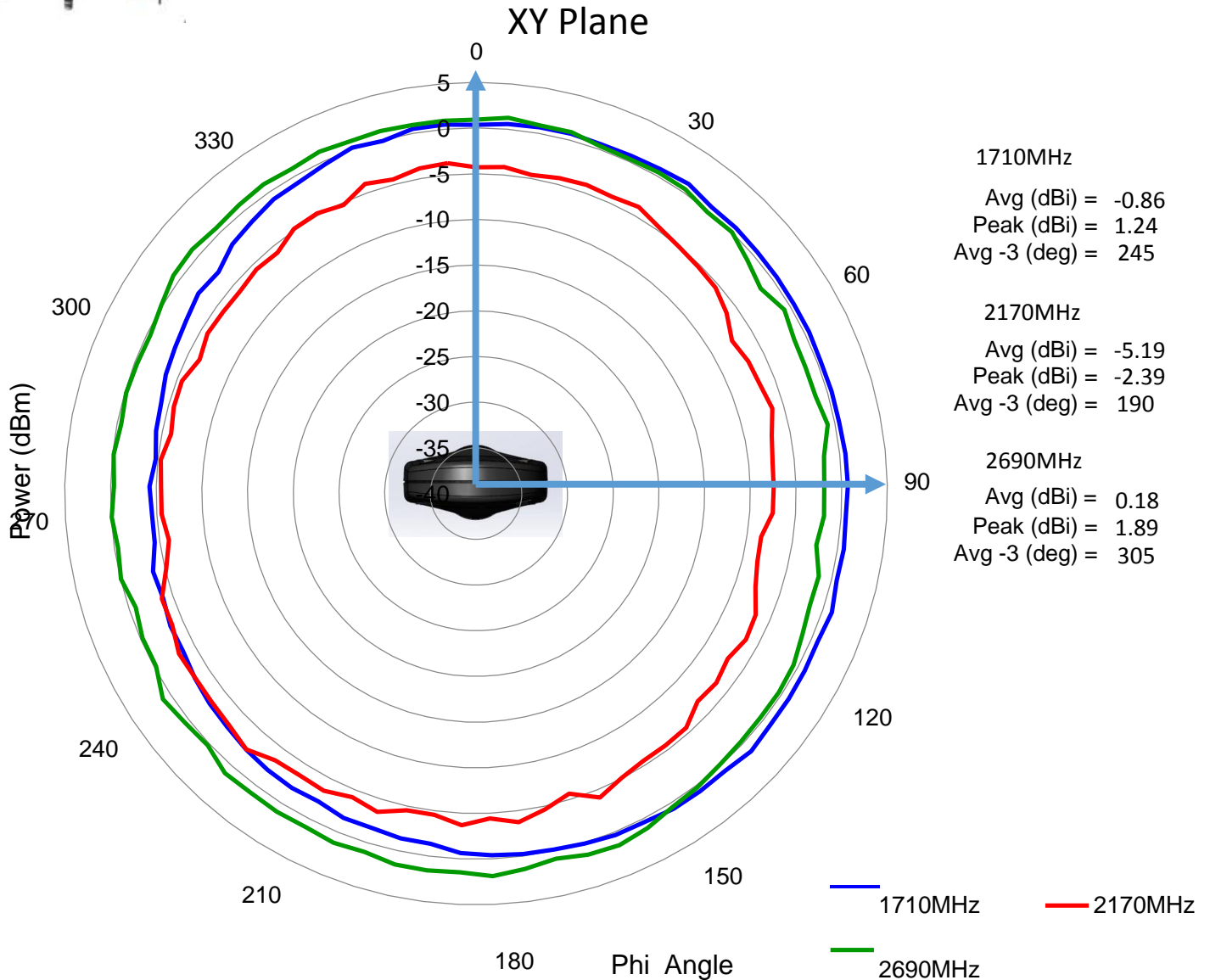
700MHz	Avg (dBi) = -3.72
	Peak (dBi) = 2.81
	Avg -3 (deg) = 14
	0
824MHz	Avg (dBi) = -5.38
	Peak (dBi) = 1.58
	Avg -3 (deg) = 10
	0
960MHz	Avg (dBi) = -5.18
	Peak (dBi) = 1.32
	Avg -3 (deg) = 85



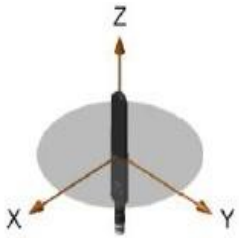
CHARTS



Gain Plots

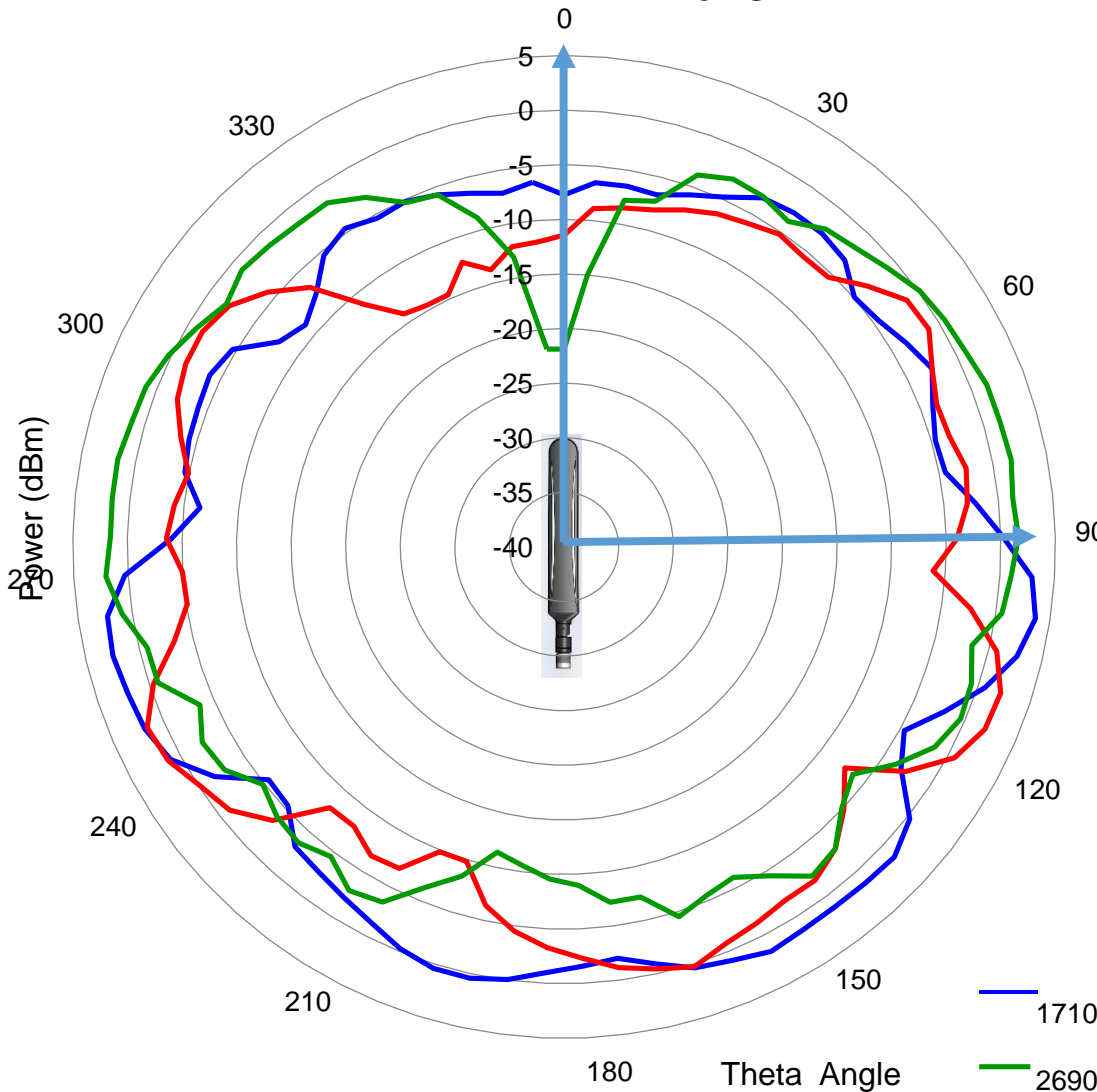


CHARTS



Gain Plots

ZX Plane



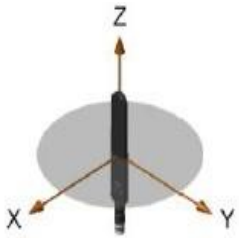
1710MHz
Avg (dBi) = -2.68
Peak (dBi) = 3.66
Avg -3 (deg) = 65

2170MHz
Avg (dBi) = -4.81
Peak (dBi) = 2.17
Avg -3 (deg) = 50

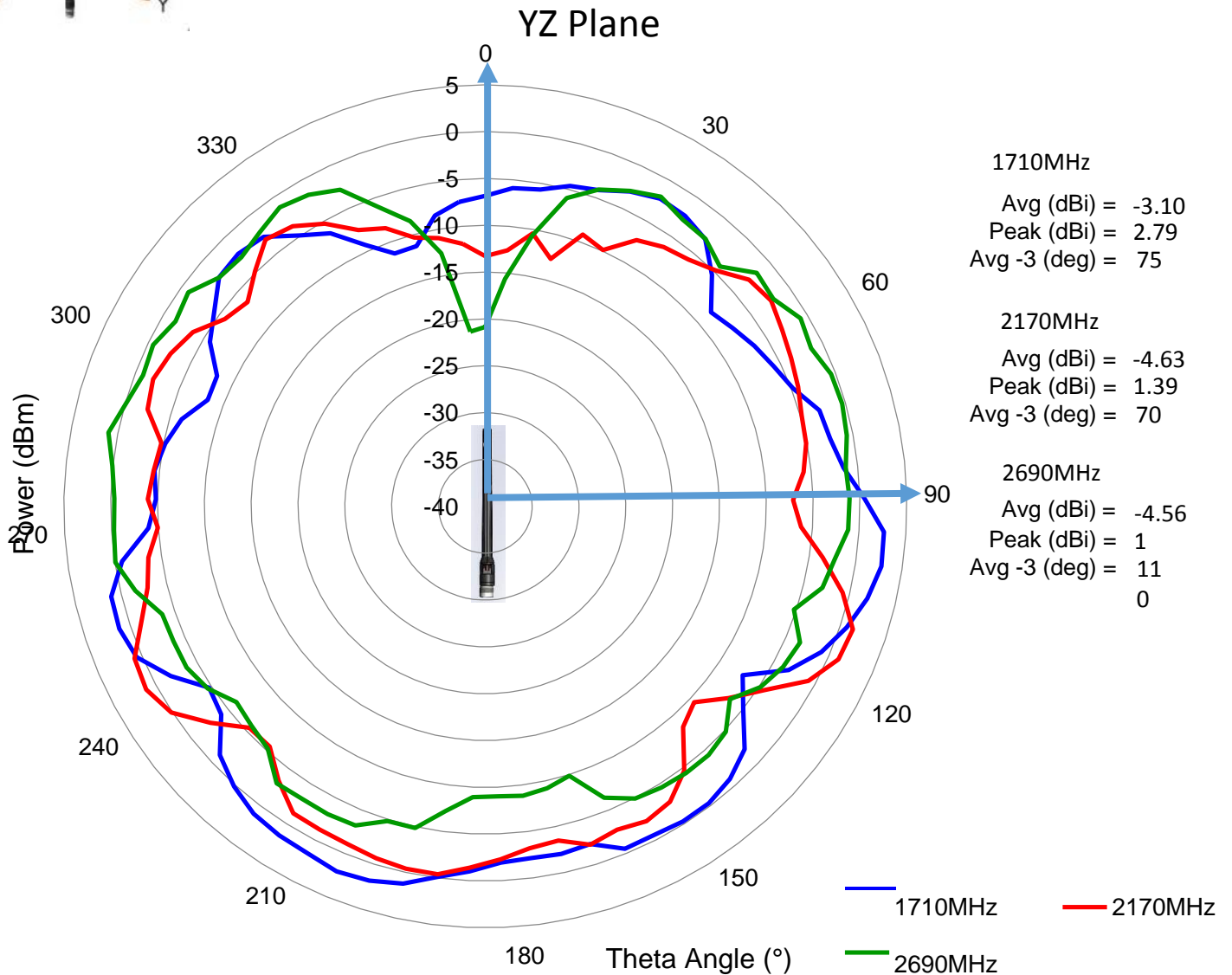
2690MHz
Avg (dBi) = -3.86
Peak (dBi) = 2.04
Avg -3 (deg) = 11
5

— 1710MHz — 2170MHz
— 2690MHz

CHARTS



Gain Plots



RFMAX

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PACKAGING

1PCS/PE bag

100PCS/Carton box

