

Description: 868-928MHz Dipole Antenna

Series: Stick Antenna

PART NUMBER: W5017

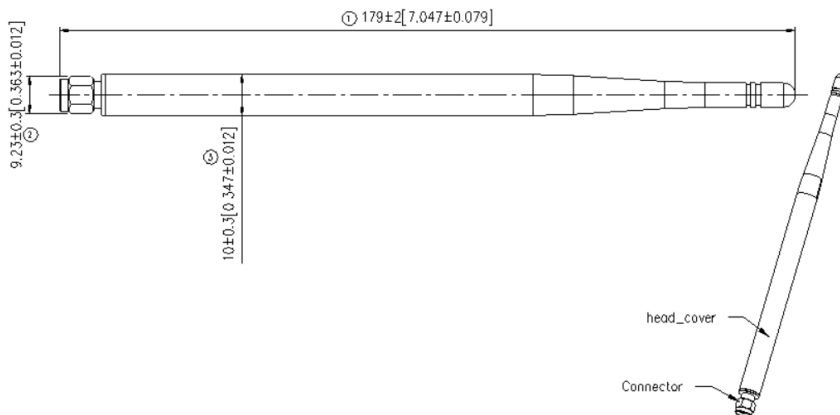


Features:

- Half wave dipole antenna
- Length 179mm
- Gain 0.9 dBi
- Connector SMA Male
- High Efficiency >70%
- Power rating 1W
- IP65 rated

Applications:

- ISM 868 / 915 MHz radios
- IoT, M2M
- Industry automation
- Remote controls
- Toys, Consumer electronics



All dimensions are in mm / inches

Issue: 1723

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

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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	868-928	MHz
Nominal Impedance	50	Ω
VSWR	2.5	Max
Average efficiency	70	%
Peak Gain	0.9	dBi +/- 1 dB
Polarization:	Vertical	
Power withstanding	1	W
Connector type	SMA	

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MECHANICAL SPECIFICATIONS

Plastic radome	TPEE
Color	Black
Ingress Protection	IP65
Weight	16.6 g
Overall Length	7.047 INCHES

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85° C
Temperature	-40/+85° C
Salt mist	24hours

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MECHANICAL DRAWING

MOD	A	B	C	D	E	F	G																																								
	Description	Please Refer Pulse Limits for the hazardous substances (RoHS, halogens) in the document "Pulse Hazardous Substances (HS) Limits (PPGE002-03)" and "Vendor Survey Questionnaire, Material Composition (LOH-SAF-10040)".	Reliability Test Spec according to WHS7.5.33 (Reliability Test Working Instruction) Default test standard is Test Standard A if no definition				<table border="1"> <thead> <tr> <th colspan="2">TOLERANCE OF LINEAR DIMENSIONS</th> </tr> <tr> <th>Dimension</th> <th>Tolerance</th> </tr> </thead> <tbody> <tr> <td>0.5</td> <td>±0.05</td> </tr> <tr> <td>0.5 - 1.0</td> <td>±0.10</td> </tr> <tr> <td>1.0 - 1.5</td> <td>±0.15</td> </tr> <tr> <td>1.5 - 2.0</td> <td>±0.20</td> </tr> <tr> <td>2.0 - 3.0</td> <td>±0.30</td> </tr> <tr> <td>3.0 - 4.0</td> <td>±0.40</td> </tr> <tr> <td>4.0 - 5.0</td> <td>±0.50</td> </tr> <tr> <td>5.0 - 6.0</td> <td>±0.60</td> </tr> <tr> <td>6.0 - 8.0</td> <td>±0.80</td> </tr> <tr> <td>8.0 - 10.0</td> <td>±1.00</td> </tr> <tr> <td>10.0 - 15.0</td> <td>±1.50</td> </tr> <tr> <td>15.0 - 20.0</td> <td>±2.00</td> </tr> <tr> <td>20.0 - 30.0</td> <td>±3.00</td> </tr> <tr> <td>30.0 - 40.0</td> <td>±4.00</td> </tr> <tr> <td>40.0 - 50.0</td> <td>±5.00</td> </tr> <tr> <td>50.0 - 60.0</td> <td>±6.00</td> </tr> <tr> <td>60.0 - 80.0</td> <td>±8.00</td> </tr> <tr> <td>80.0 - 100.0</td> <td>±10.00</td> </tr> </tbody> </table>	TOLERANCE OF LINEAR DIMENSIONS		Dimension	Tolerance	0.5	±0.05	0.5 - 1.0	±0.10	1.0 - 1.5	±0.15	1.5 - 2.0	±0.20	2.0 - 3.0	±0.30	3.0 - 4.0	±0.40	4.0 - 5.0	±0.50	5.0 - 6.0	±0.60	6.0 - 8.0	±0.80	8.0 - 10.0	±1.00	10.0 - 15.0	±1.50	15.0 - 20.0	±2.00	20.0 - 30.0	±3.00	30.0 - 40.0	±4.00	40.0 - 50.0	±5.00	50.0 - 60.0	±6.00	60.0 - 80.0	±8.00	80.0 - 100.0	±10.00
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NOTE:
ELECTRICAL PROPERTIES
1.DESCRPTION: DIPOLE OUTDOOR ANTENNA SMA
2.FREQUENCY : 868~928MHz
3.IMPEDANCE : 50 Ohms nominal
4.V.S.W.R. : 2.5max. IN BAND
5.GAIN : 0.9 dBi
6.ADMITTED POWER RADIATION : 1W
7.RADIATION : Omni
8.POLARIZATION : VERTICAL
9.ELECTRICAL LENGTH : 1/4 ,DIPOLE

MECHANICAL PROPERTIES
1.OPERATING TEMPERATURE RANGE : -40°C~+85°C
2.STORAGE TEMPERATURE RANGE : -40°C~+85°C
3.Connector : Straight SMA (male body, male pin)
4.FINISH COLOR : BLACK
5.ROHS COMPLIANT
6.Water Proof : IP65

Item	Drawing number	Name of Part	Part Version	Standard	Material	Dimension	Pcs
2	J39-60321	W5012_head cover			TPEE		1
1	J92-60881	W5017_Tube Cable Ass'y					1

Product(s)	Item Name	Scale	First angle projection	Handing	General Tolerance	Associated	Design	Checked	Approved	Document Number	Part Version	Document Version	Mod	Date	Name
Pulse (Suzhou) Wireless Products Co., Ltd 99 HUOJU RD,SUZHOU NEW DISTRICT SUZHOU 215009 CHINA WWW.PULSEELECTRONICS.COM/ANTENNAS	W5017	1:1		ISO 2768-f	Jeanie Fel	20100817				W5017	V02	11			

Mod	Date	Name
11	20131028	WinZhu
8	20110704	Jeanie
2	20110317	Jeanie
2	20110301	Jeanie
1	20100817	Jeanie

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Functional Characteristics Key (Zig requirement : Zig)
 Zig requirement : Zig
 RoHS Compliance Status required : ()
 RoHS Compliance Status required : ()
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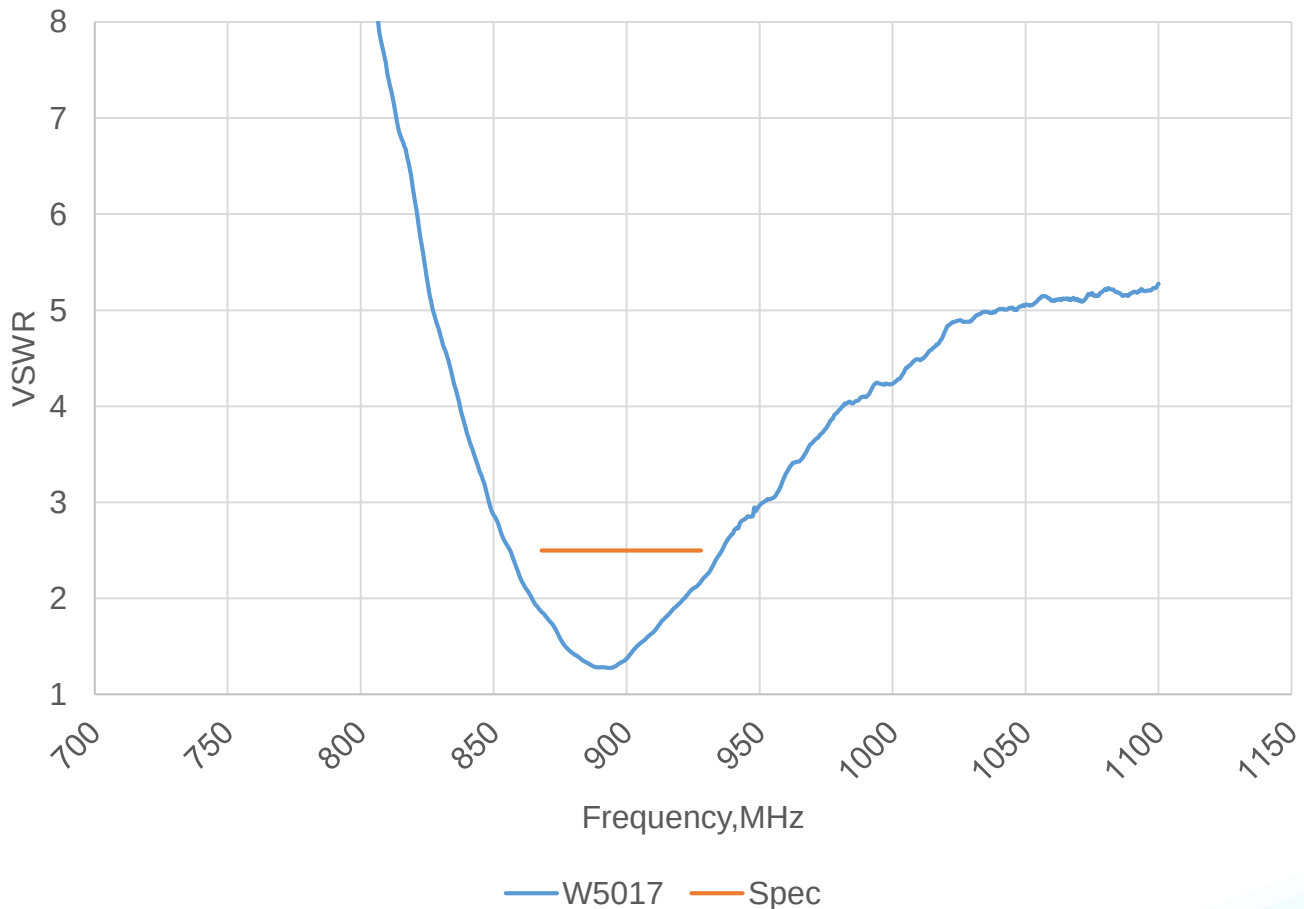
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CHARTS

VSWR

VSWR vs Frequency measured in free space
W5017 measured in PSU



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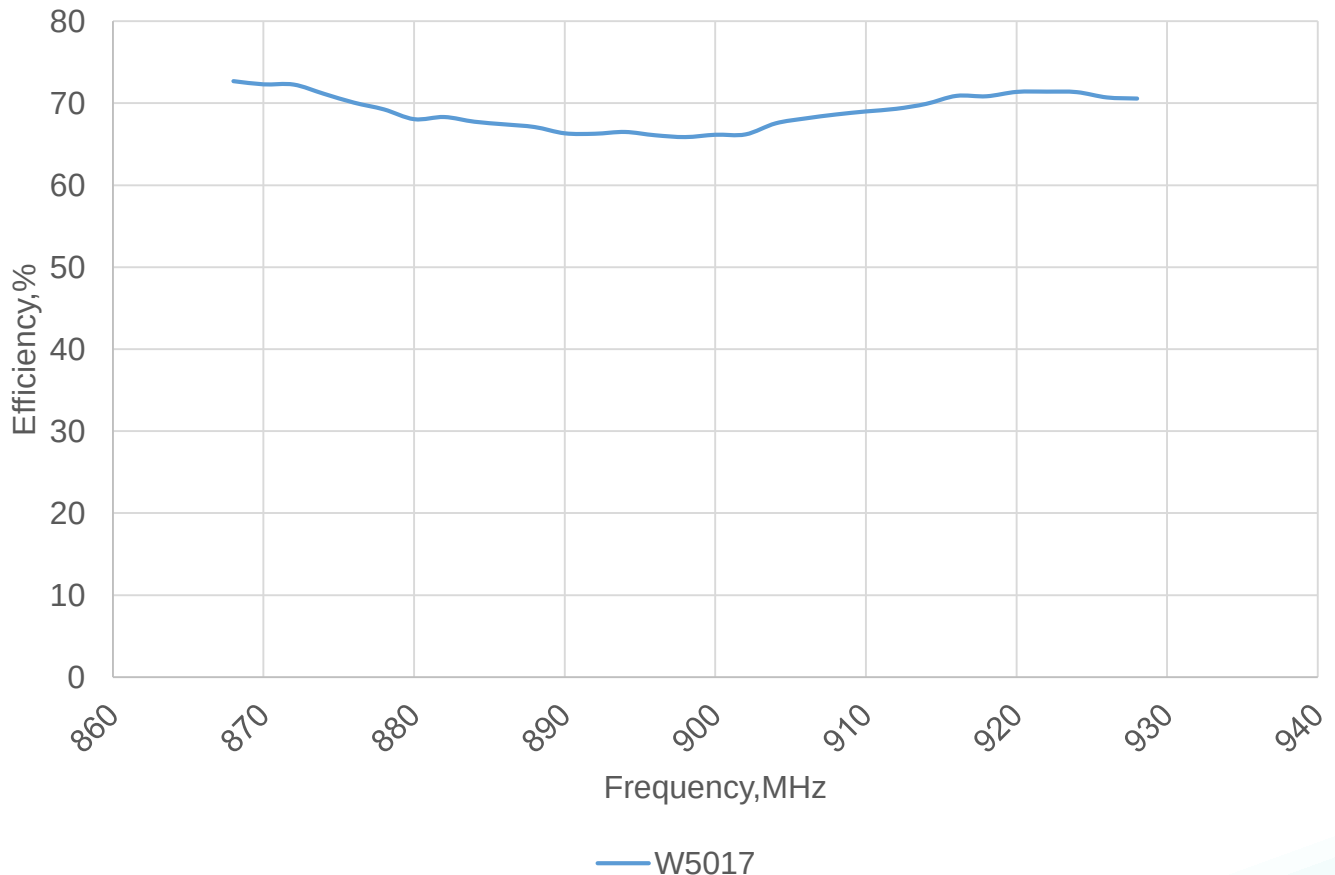
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CHARTS

Efficiency

Efficiency vs Frequency measured in free space
W5017 measured in PSU



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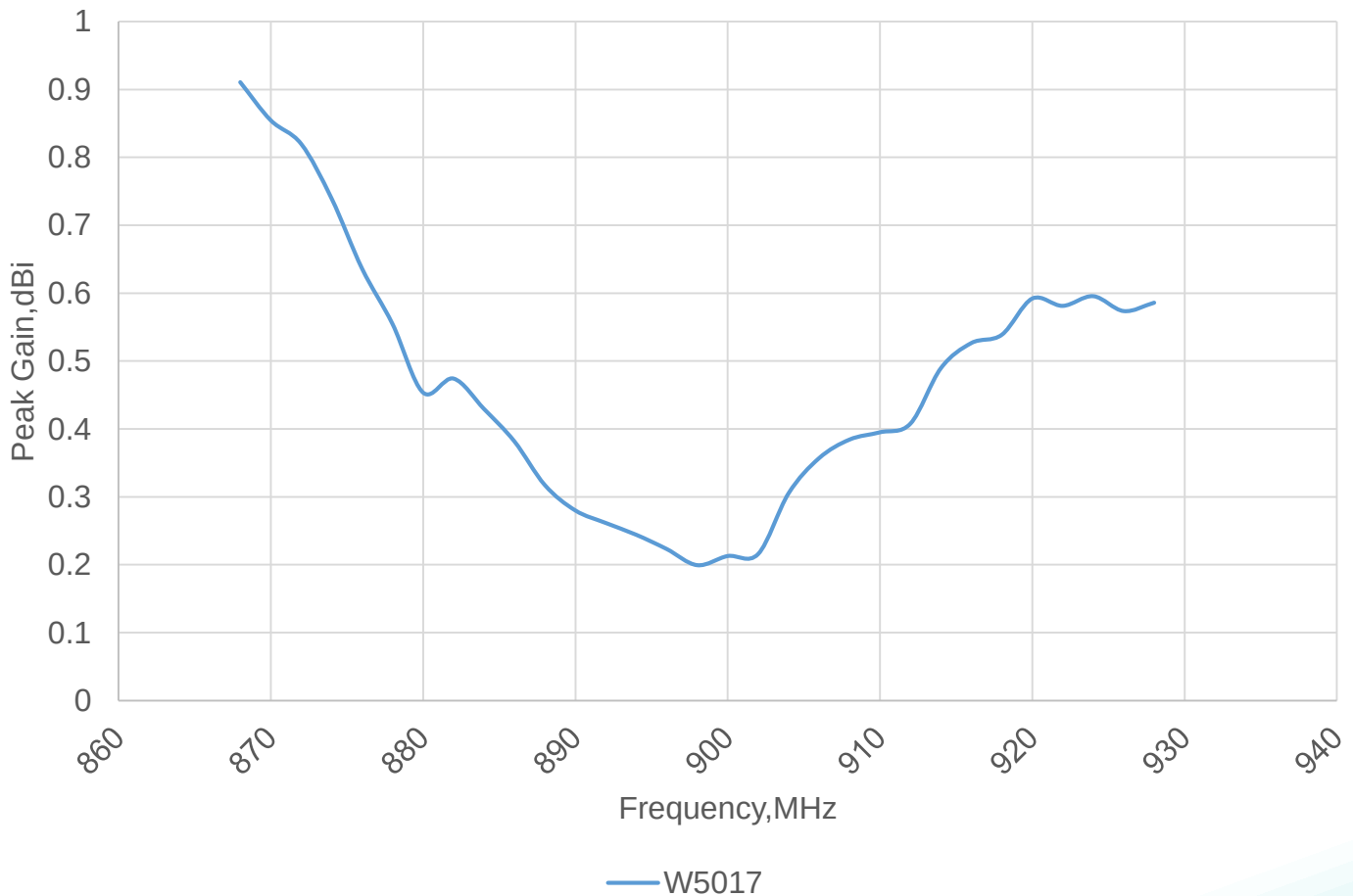
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CHARTS

Peak Gain

Peak Gain vs Frequency measured in free space
W5017 measured in PSU



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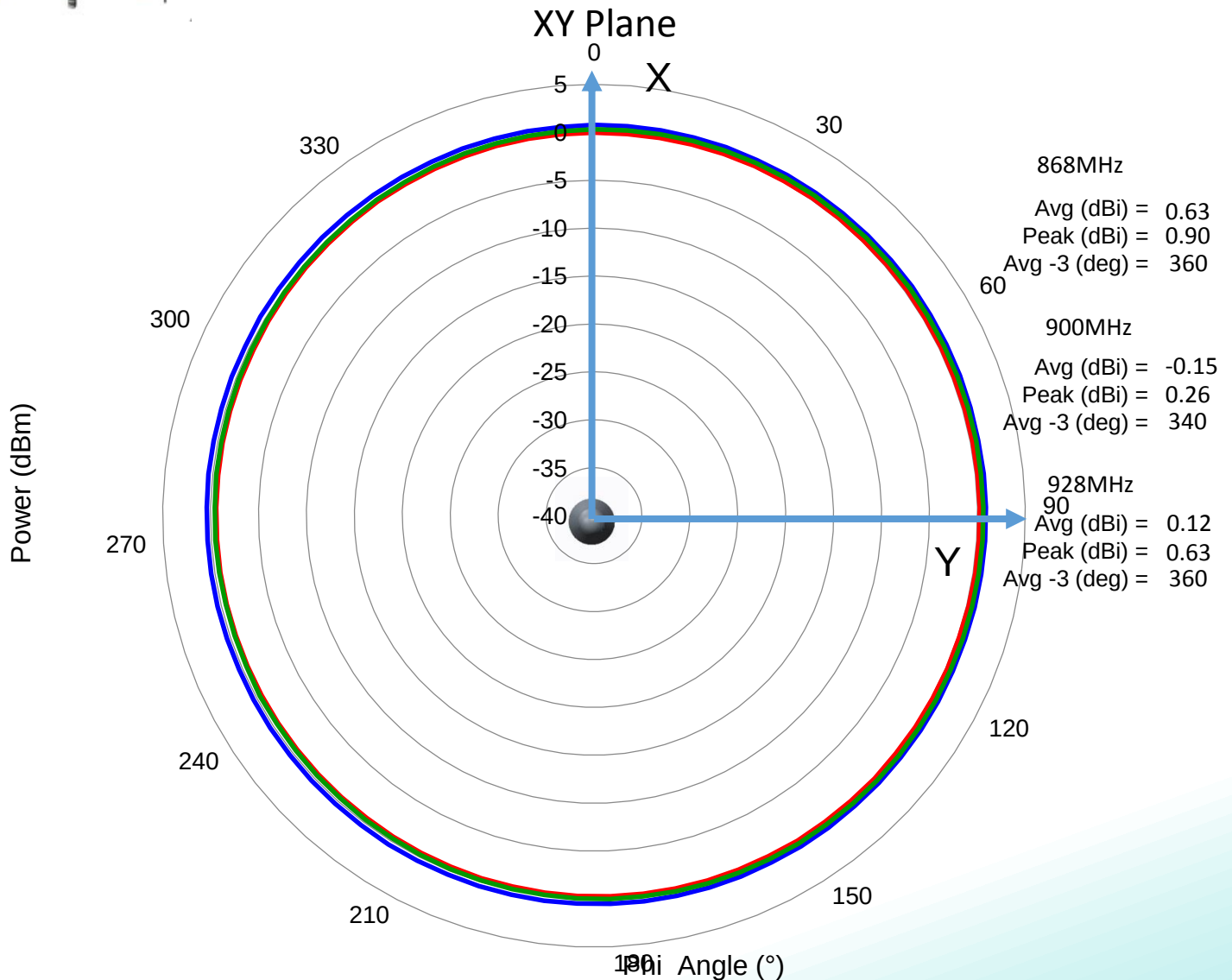
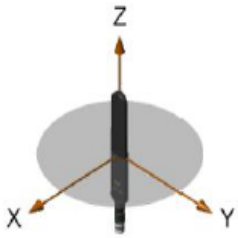
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CHARTS

Gain Plots



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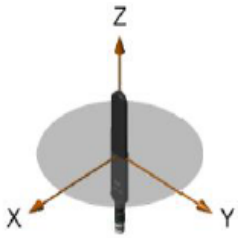
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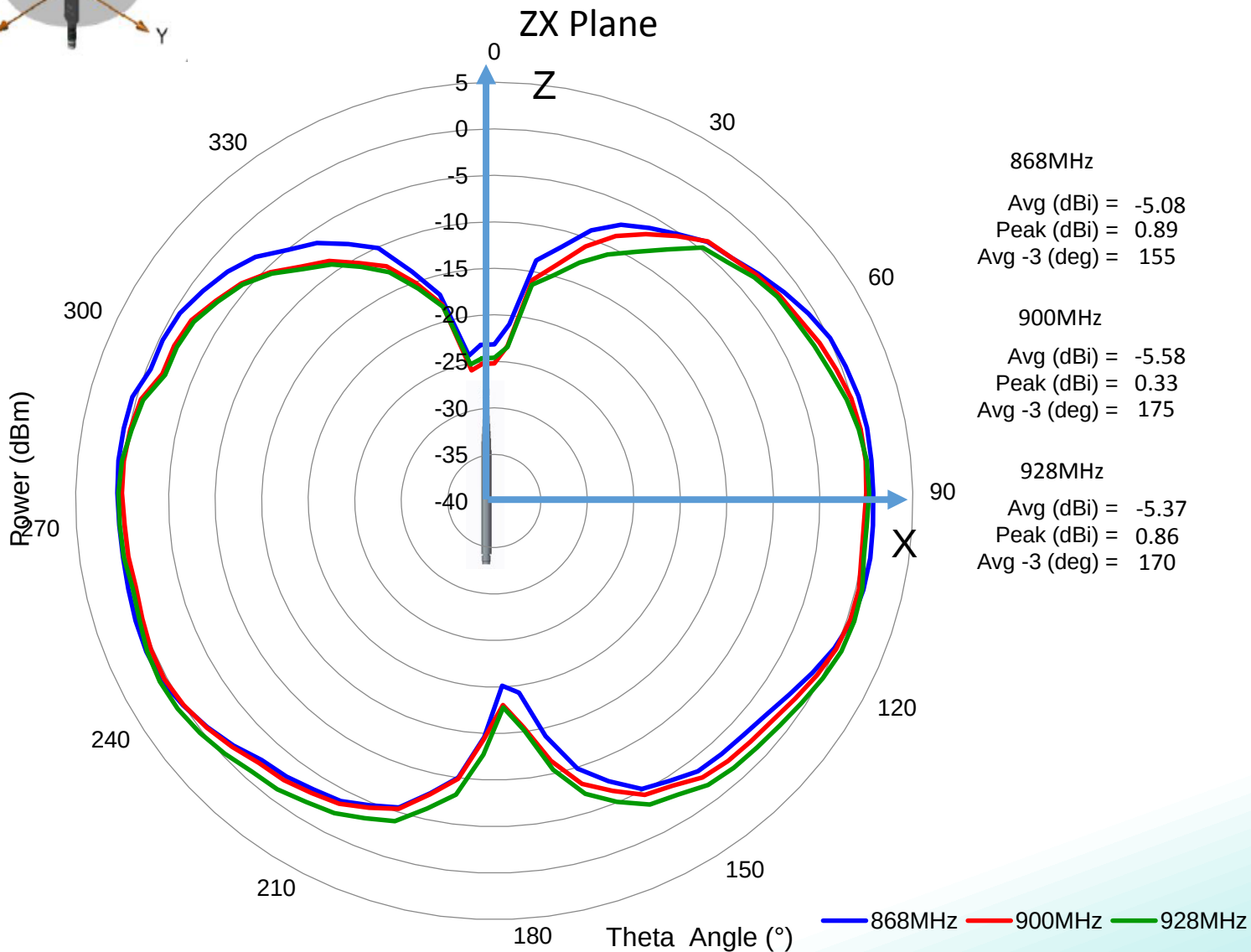
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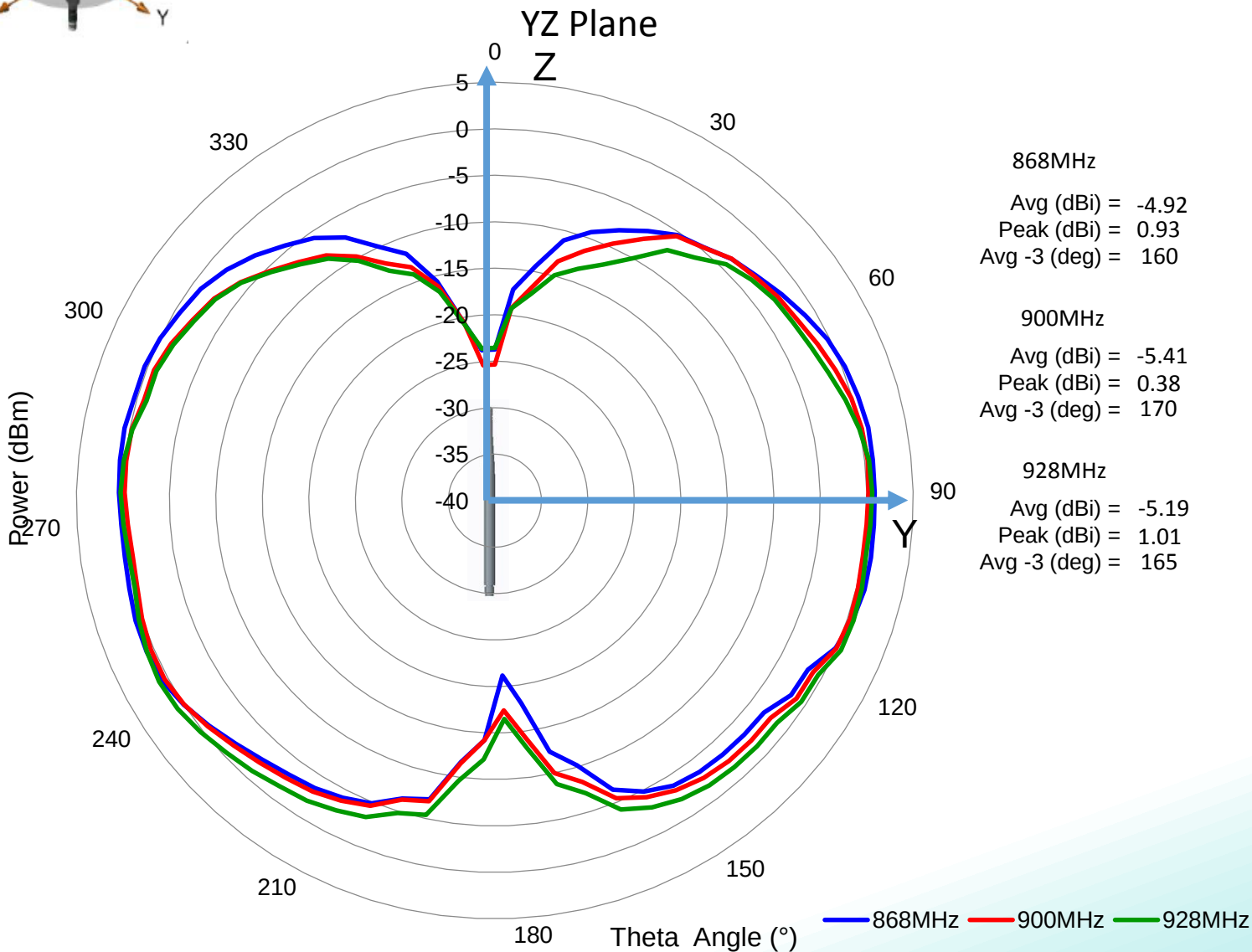
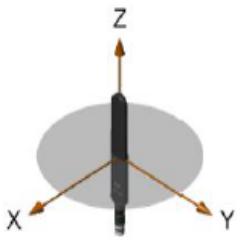
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CHARTS

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Description: 868-928MHz Dipole Antenna**Series: Stick Antenna****PART NUMBER: W5017****PACKAGING**

600 pcs antenna per box

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