

**Description: 824-960/1710-2170MHz Right** 

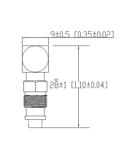
**Angle Stick Antenna** 

PART NUMBER: W1903

**Series: External Antenna** 



\$50±1 [1.97±0.04]



## Features:

- Penta band Cell Band Antenna
- Gain 0dBi
- Power Rating 2W
- Length 50mm
- Connector Right Angle FME Female
- RoHS Compliant

# **Applications:**

- Indoor applications
- 2G, 3G, 4G Cellular
- IoT, M2M
- Metering
- Industry automation & controls
- Energy monitoring

All dimensions are in mm / inches

Issue: 1641

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ELECTRICAL SPECIFICATIONS		
Frequency	824-960/1710-2170	MHz
Nominal Impedance	50	$\Omega$
Return loss	-4.5	dB(max)
Average efficiency(824-960MHz)	27	%
Average efficiency(1710-2170MHz)	43	%
Peak Gain (824-960MHz)	0	dBi +/- 1 dB
Peak Gain (1710-2170MHz)	0	dBi +/- 1 dB
Polarization:	Vertical	
Power withstanding	2	W



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## **MECHANICAL SPECIFICATIONS**

Plastic radome PC+PBT

Color Black

Weight 12.05 g

Overall Length 50[1.97] MM[INCHES]

# **ENVIRONMENTAL SPECIFICATIONS**

Operating temperature -30/+75 ° C

Temperature cycling test -35/+80 ° C

Salt mist 24 hours



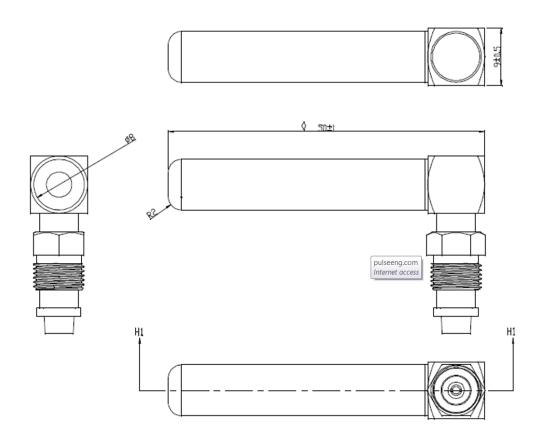
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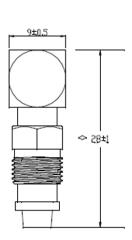
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# **MECHANICAL DRAWING**







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# **CHARTS**

# Return loss

# Return loss vs Frequency measured in free space W1903 measured in PSU







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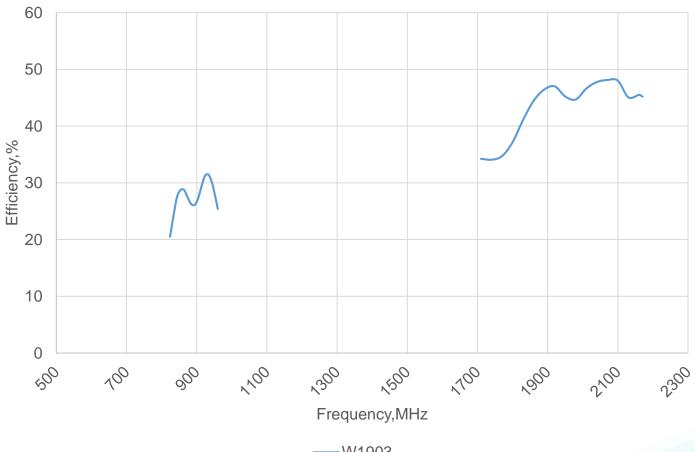
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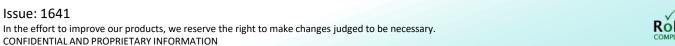
# **CHARTS**

# Efficiency

# Efficiency vs Frequency measured in free space W1903 measured in PSU



W1903





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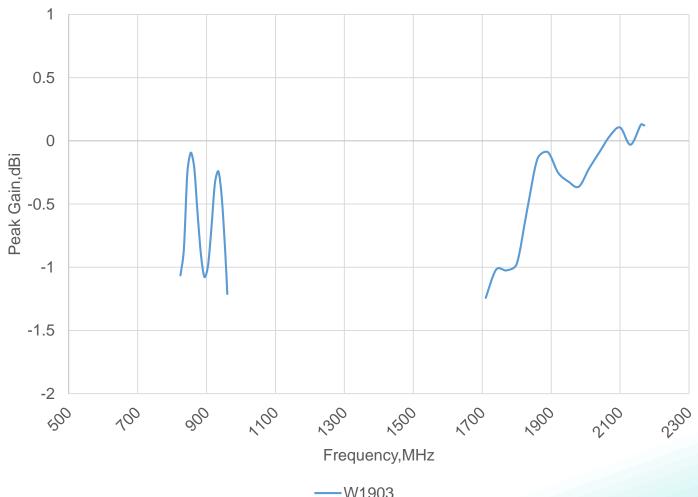
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# **CHARTS**

# Peak Gain

# Peak Gain vs Frequency measured in free space W1903 measured in PSU



-W1903





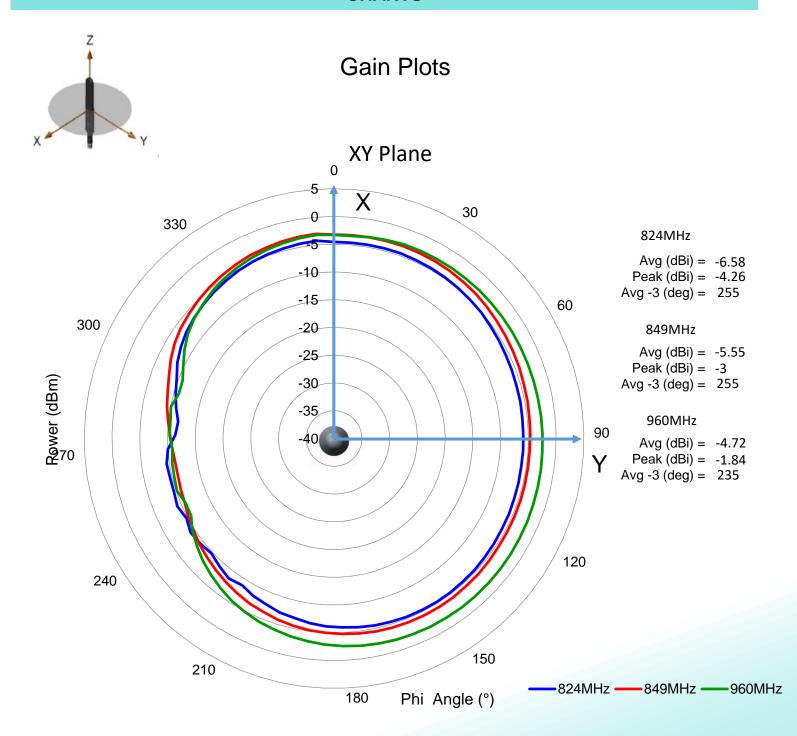
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## **CHARTS**



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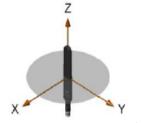
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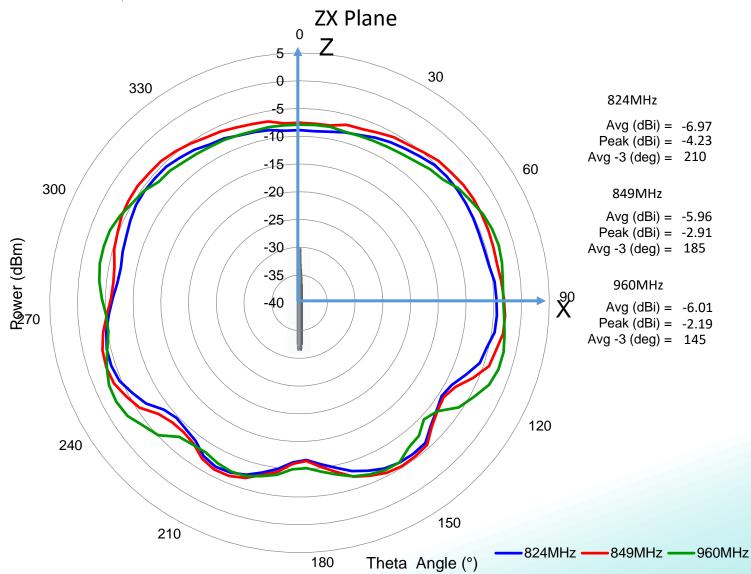
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## **CHARTS**



# **Gain Plots**



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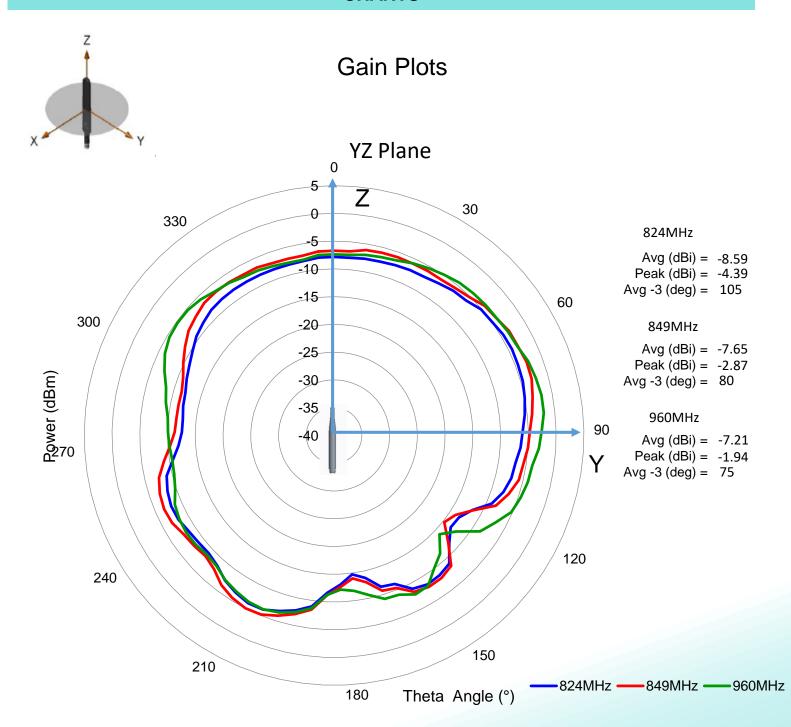
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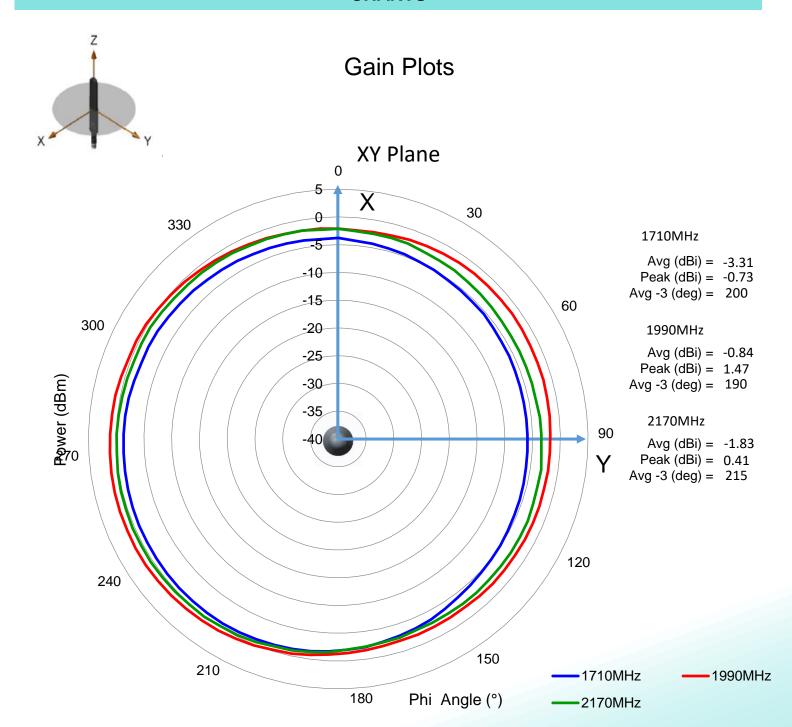
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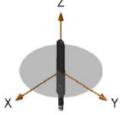
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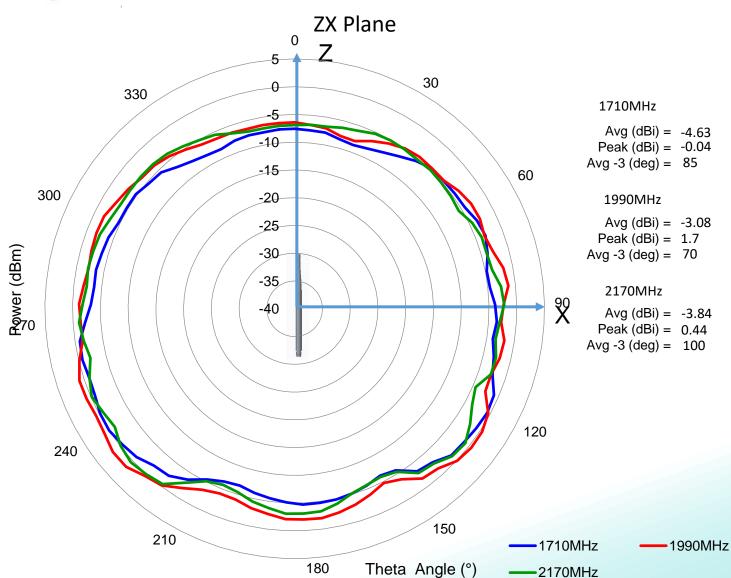
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## **CHARTS**



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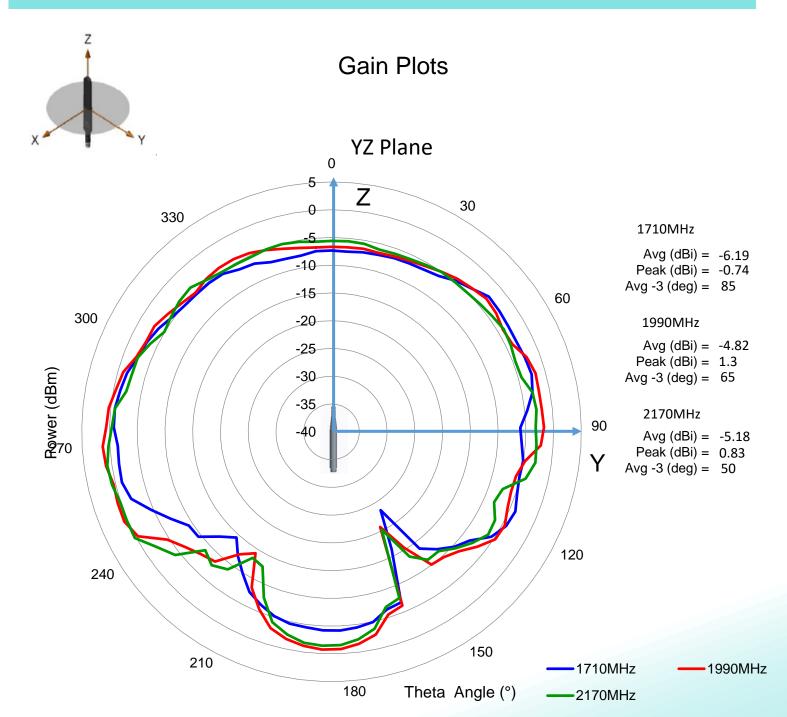
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## **CHARTS**



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**TECHNICAL DATA SHEET** 

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# **PACKAGING**

1PCS/PE bag 40PCS/Tray 8Tray/Carton box 320PCS/Carton box



