

**Description: 2.4-2.5GHz 1.3dBi IP67 RP-SMA  
External Stick Antenna**

**Series: Stick Antenna**

**PART NUMBER: W5039**



**Features:**

- Frequency 2400-2500MHz
- Quarter wave Dipole
- Gain 1.3dBi
- Vertical Polarization
- Omni radiation in Hor plane
- Length 93.79mm
- IP67
- Connector RP-SMA

**Applications:**

- WiFi, Bluetooth, BLE, ZigBee
- ISM 2.4GHz radios
- Indoor / Outdoor applications
- Video / data transmission
- Security, surveillance, monitoring
- IoT, M2M

Issue: 1637

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External Stick Antenna****Series: Stick Antenna****PART NUMBER: W5039****ELECTRICAL SPECIFICATIONS**

Frequency	2400-2500	MHz
Nominal Impedance	50	$\Omega$
VSWR	2: 1	
Average efficiency	77	%
Peak Gain	1.3	dBi +/- 1 dB
Polarization:	Vertical	
Power withstanding	3	W
Connector type	RP SMA	

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**MECHANICAL SPECIFICATIONS**

Plastic radome	TPE	DSM CM600
Color	Black	
Ingress Protection	IP67	
Weight	11	g
Overall Length	[3.7]93.79	[INCHES]MM
Flammability Rating	UL94-V2	

**ENVIRONMENTAL SPECIFICATIONS**

Operating temperature	-40/+85	° C
Drop test	1 meter to tile	10 times
Storage Temperature	-40°C to +85°C	24 hours
Corrosion	Salt Spray	2h+1 week, two cycle
Vibration	duration 3x15 minutes 3 planes	45 minutes
Mechanical Shocks	20g / 11mS	half-sine
Temperature shock	-35°C to +65°C	15 deg.C/min, 3 cycles
Radome Retention	>20	lbsf
UV Rating	ISO 4892-3	2006
Wind-loading	125	Mph
Product Lifespan Estimate	20	Years

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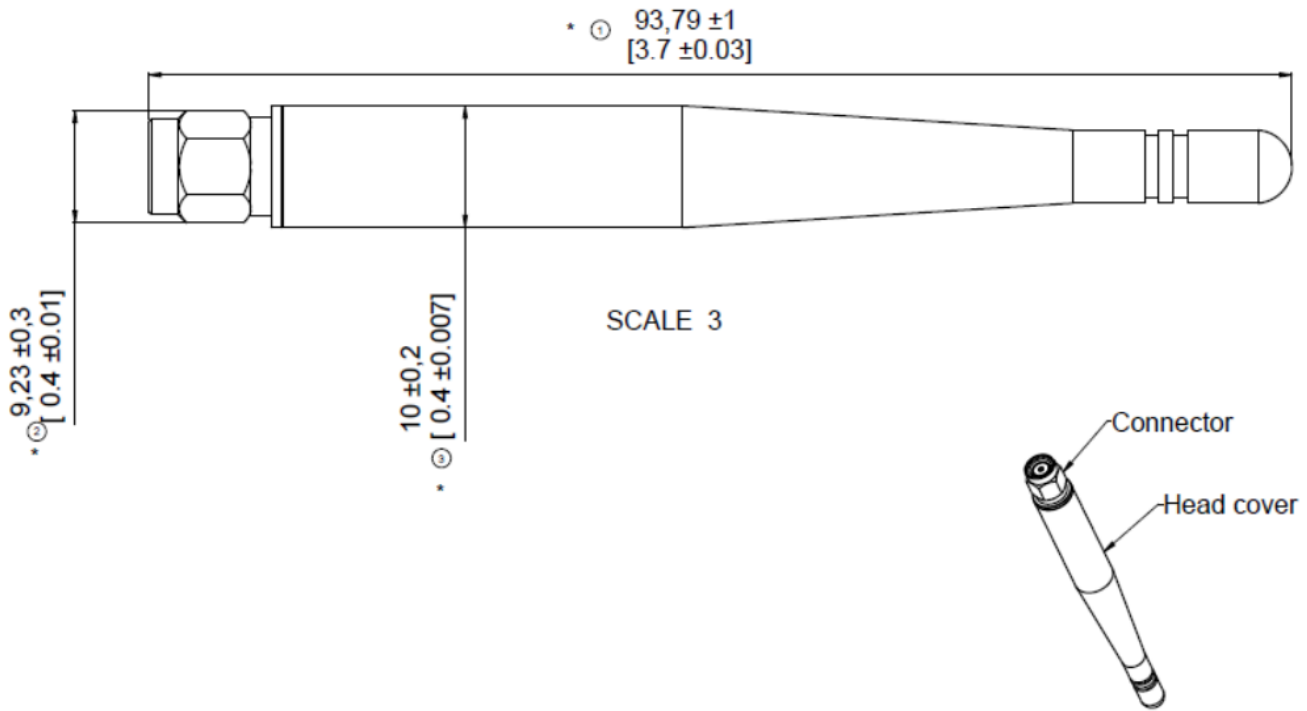


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MECHANICAL DRAWING



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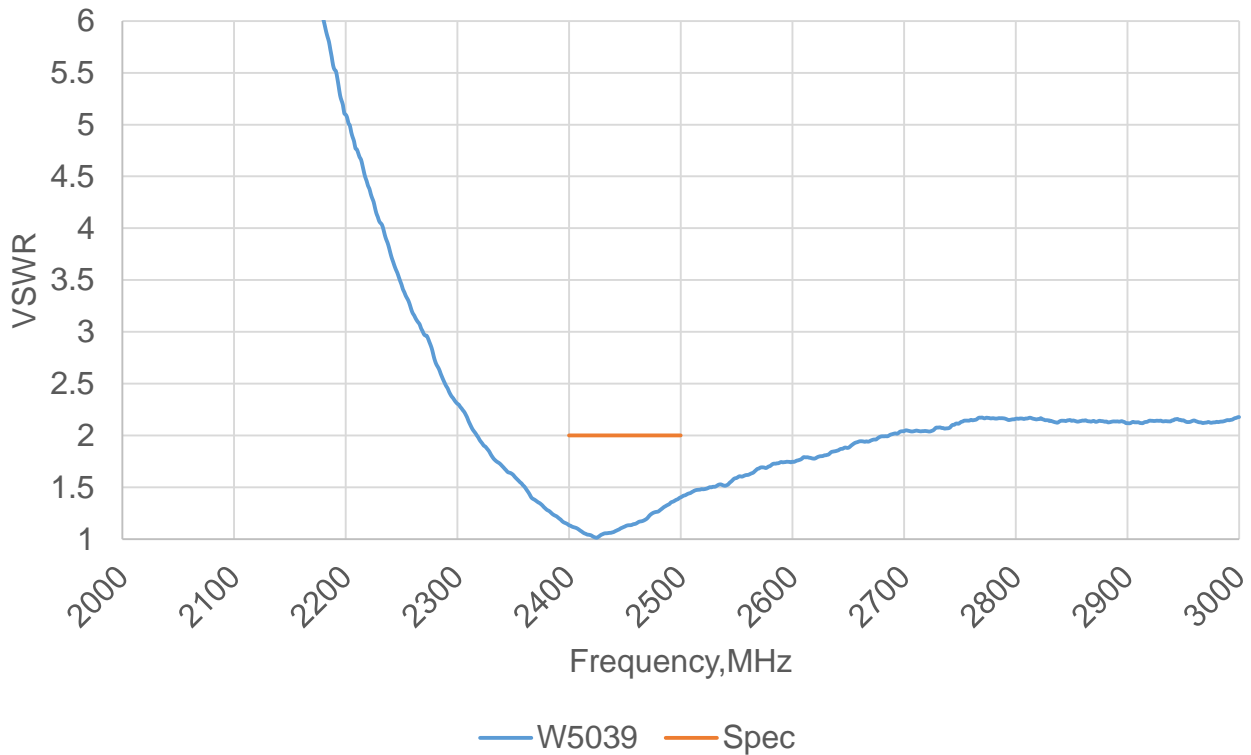
Series: Stick Antenna

PART NUMBER: W5039

CHARTS

VSWR

VSWR vs Frequency measured in free space  
W5039 measured in PSU



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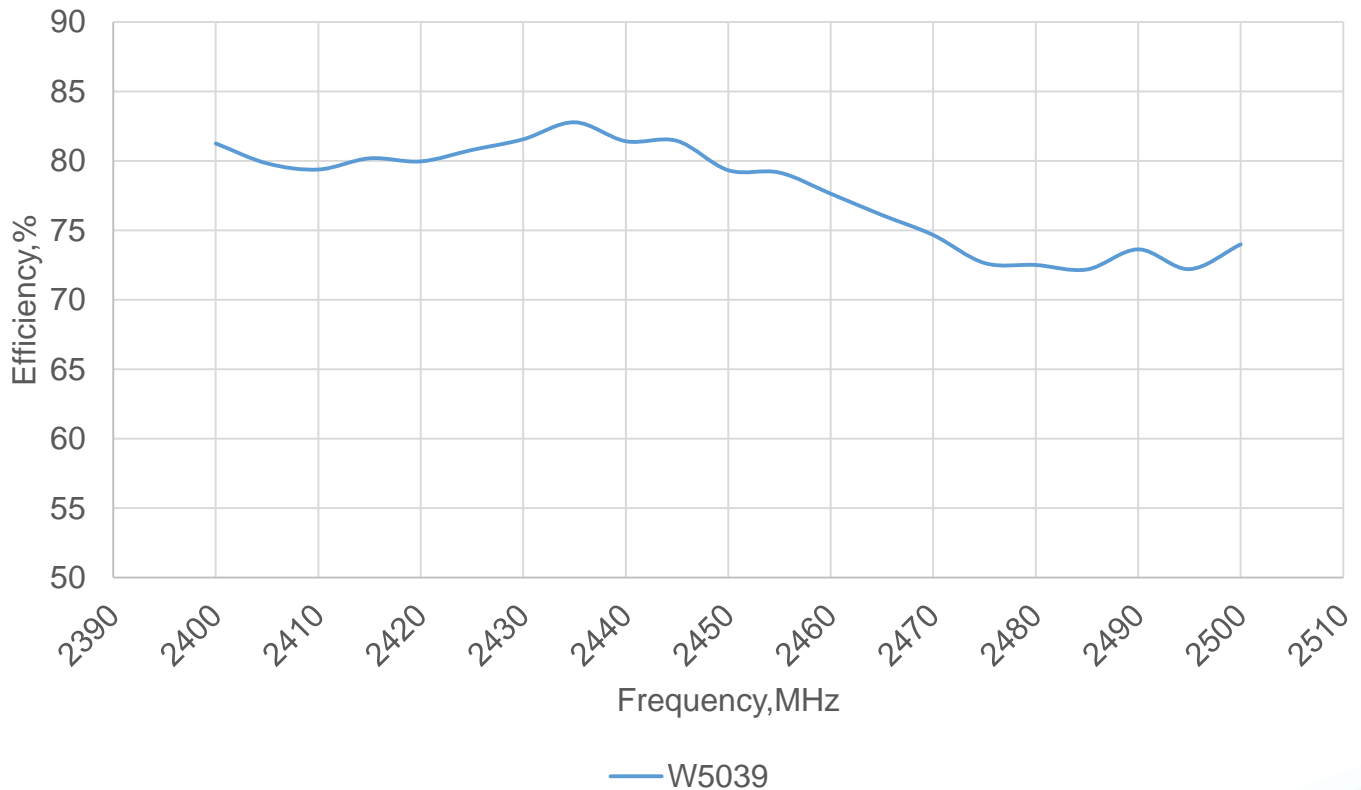
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**CHARTS**

**Efficiency**

Efficiency vs Frequency measured in free space  
W5039 measured in PSU



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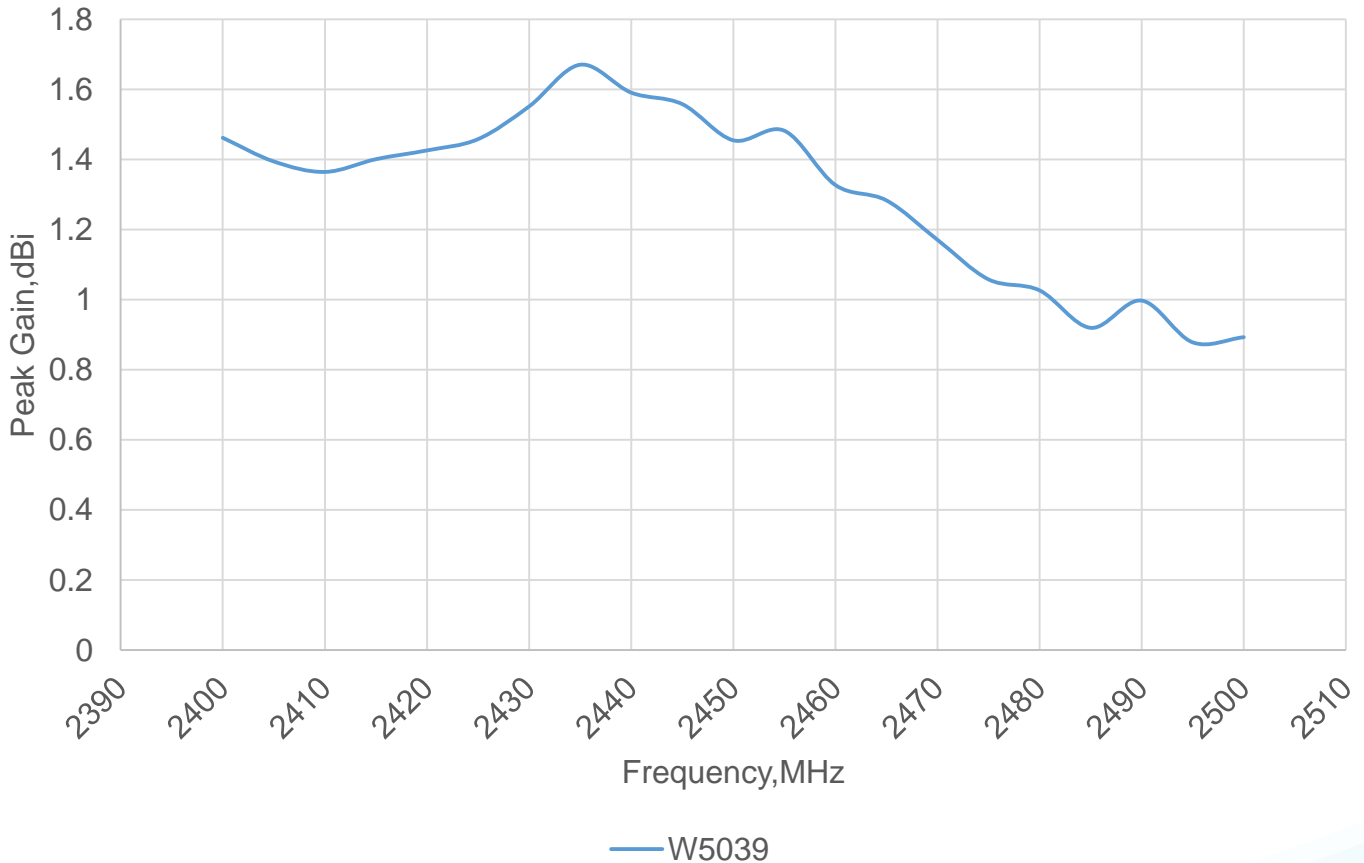
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CHARTS

Peak Gain

Peak Gain vs Frequency measured in free space  
W5039 measured in PSU



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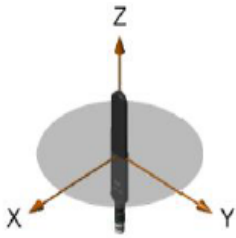
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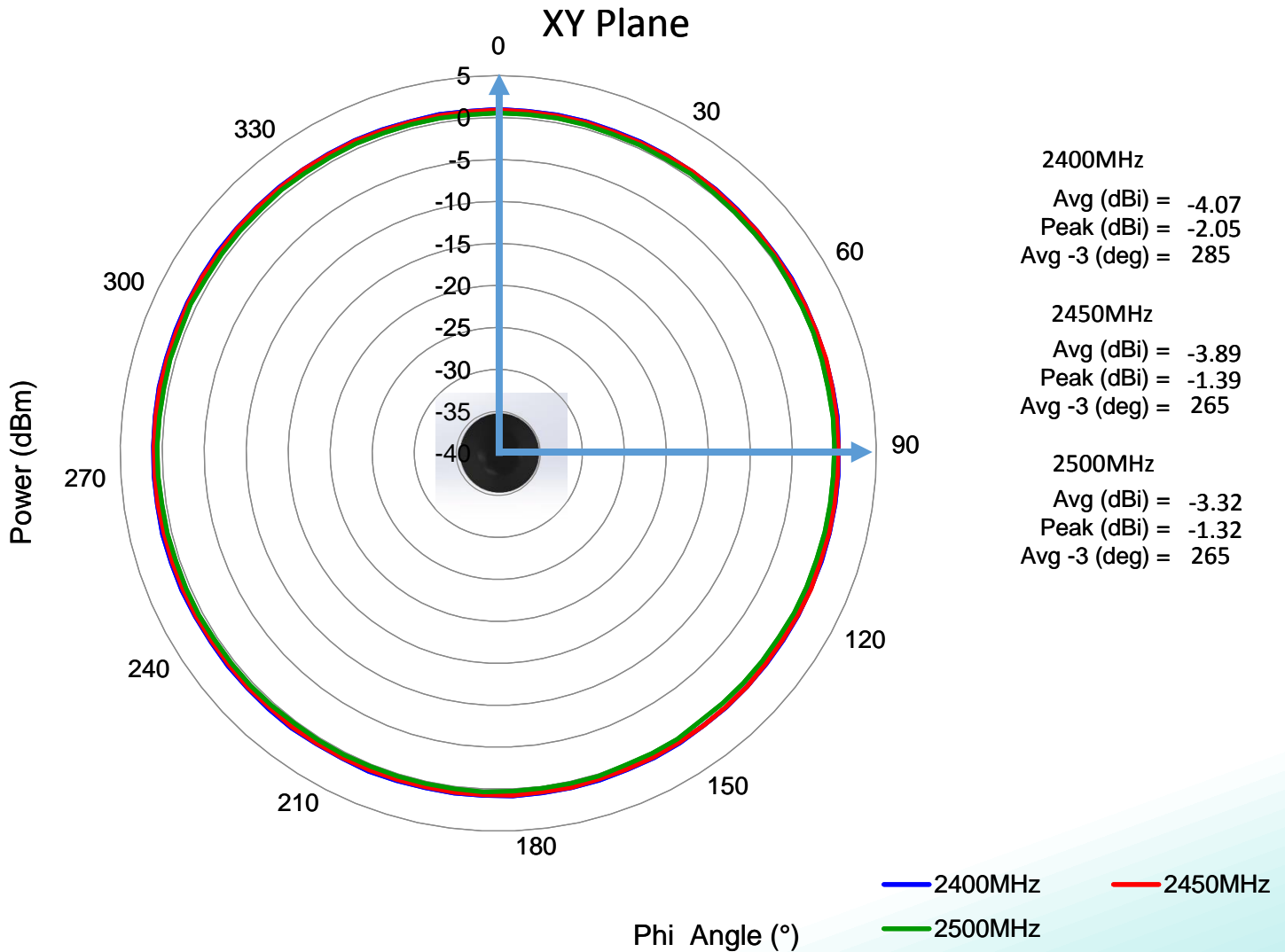
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CHARTS



Gain Plots



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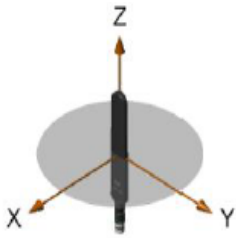


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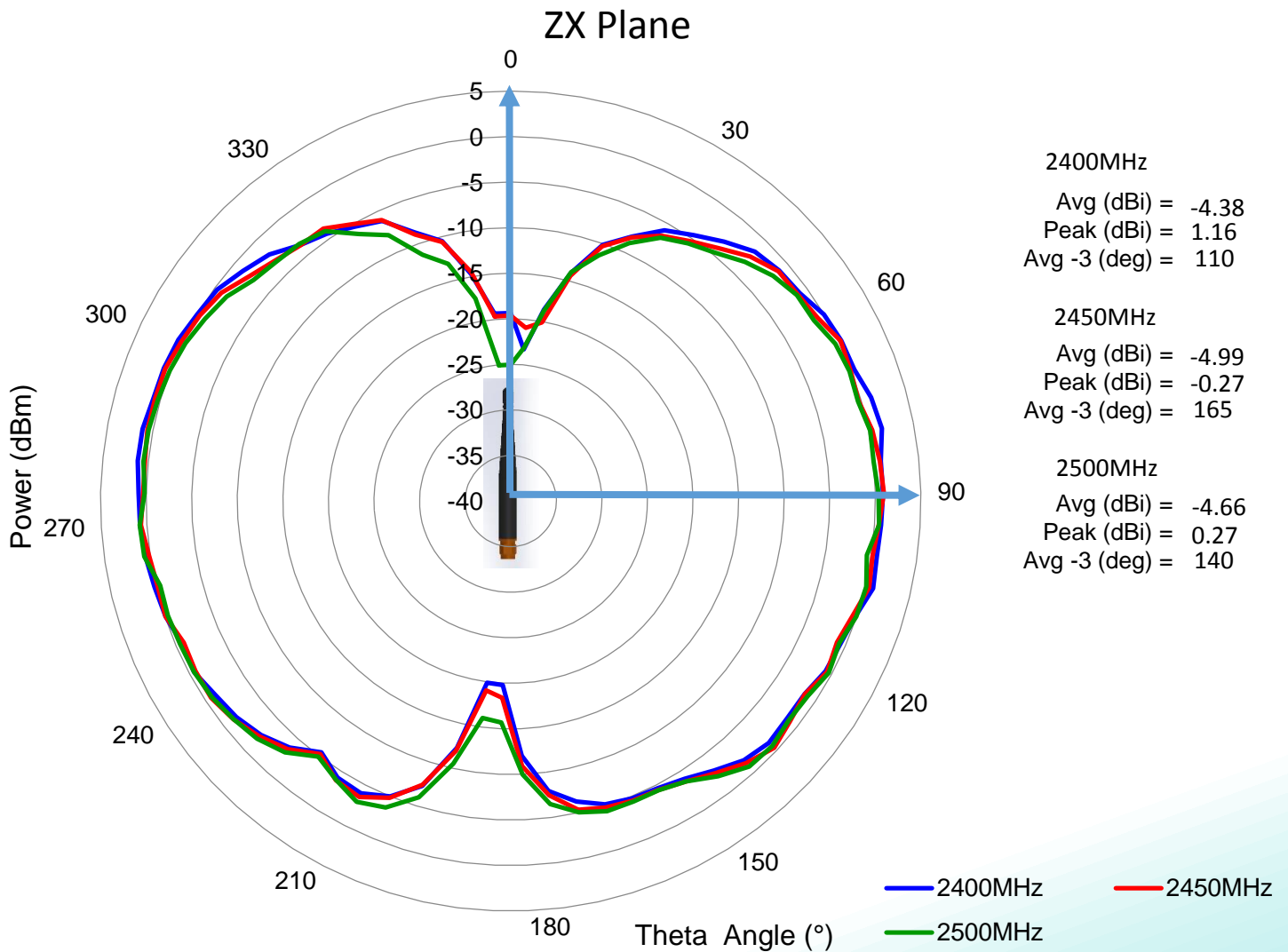
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CHARTS



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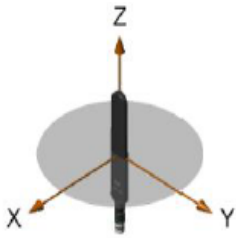
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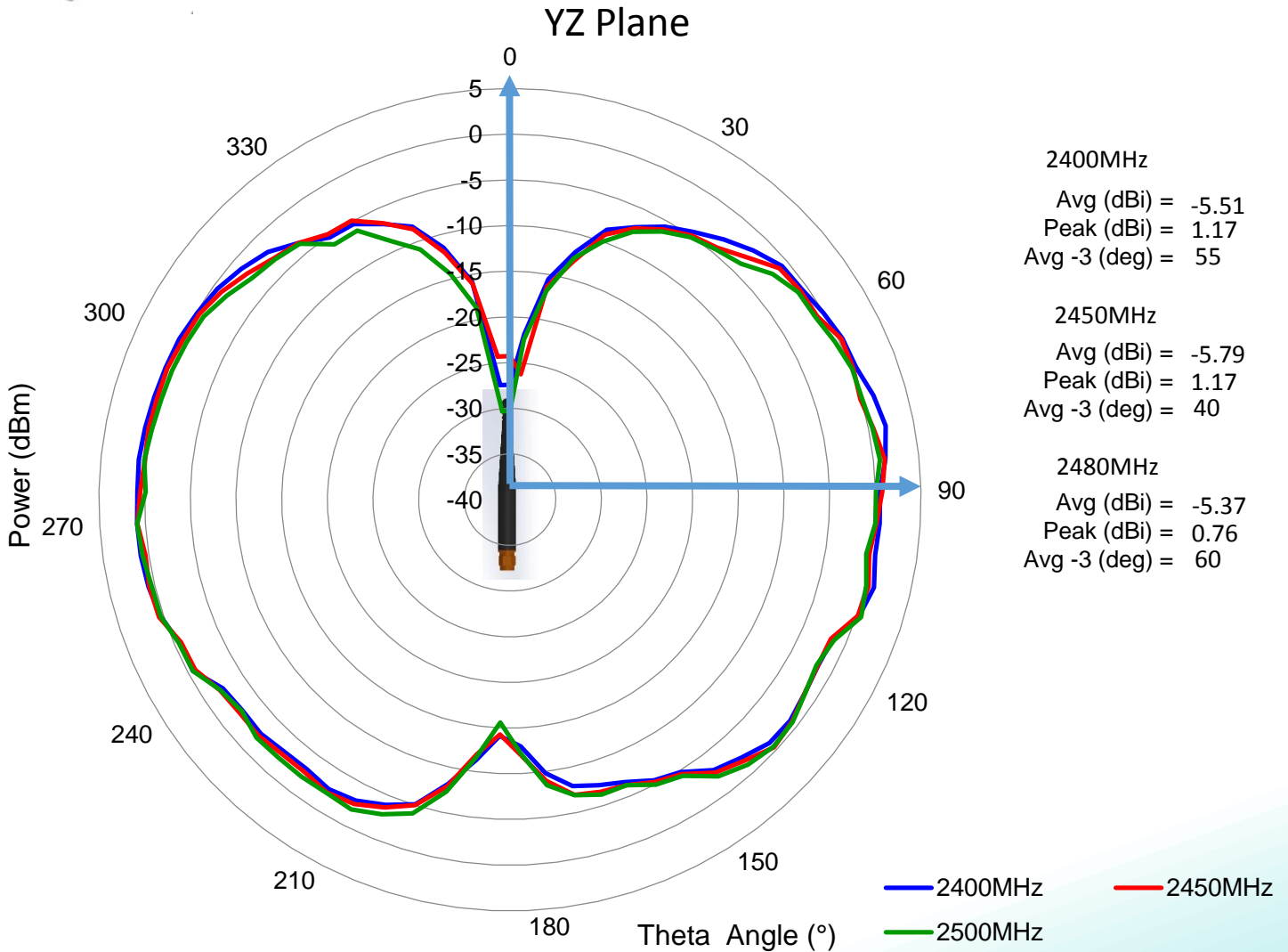
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CHARTS



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## PACKAGING

Bullet PE bag packing  
35PCS/PE bag  
20 bags (700PCS)/carton box



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