

# Part No. X1005323-W3A1SA10A1

## WiFi External Antenna

(2400-2500; 5150-5850) MHz

Supports: Tracking, Smart Home, Agriculture, Automotive, Healthcare, Digital Signage, Logistics, Industrial Devices



Ethertronics' WiFi external antenna delivers on the key needs of device designers for higher functionality and performance.

### Electrical Specifications

Typical characteristics in free-space

Frequency	2400~2500 MHz	5150~5825 MHz
Peak Gain	2.5 dBi	3.3 dBi
Average Efficiency	44%	31%
VSWR	2.0:1 max	
Impedance	50 Ω	

### WiFi External Antenna

(2400-2500; 5150-5850) MHz

#### KEY BENEFITS

##### Reduced Costs and Time-to Market

Standard antennas eliminate design fees and cycle time associated with a custom solution, getting products to market faster.

##### High Performance

By optimizing antenna size, performance and emissions, customer and regulatory specifications are more easily met.

##### Reliability

Products are the latest RoHS & REACH version compliant.

#### APPLICATIONS

- Remote Monitoring
- Point of Sale
- IoT
- Gateway
- Telematics
- Tracking
- Healthcare
- M2M, Industrial devices
- Smart Grid
- Logistics
- Energy
- Retail

### Mechanical Specifications

Ordering Part #	X1005323-W3A1SA10A1
Dimensions (mm)	105.1 x 30.1 x 6.7
Mounting Type	Adhesive Foam
Operating Temperature (°C)	-40 ~ +85
Housing Material & Color	PC+ABS (Black)
Weight (grams)	36
Cable	Length: 1M Type: RG-174
Connector	SMA(M)
Waterproof	IPX7



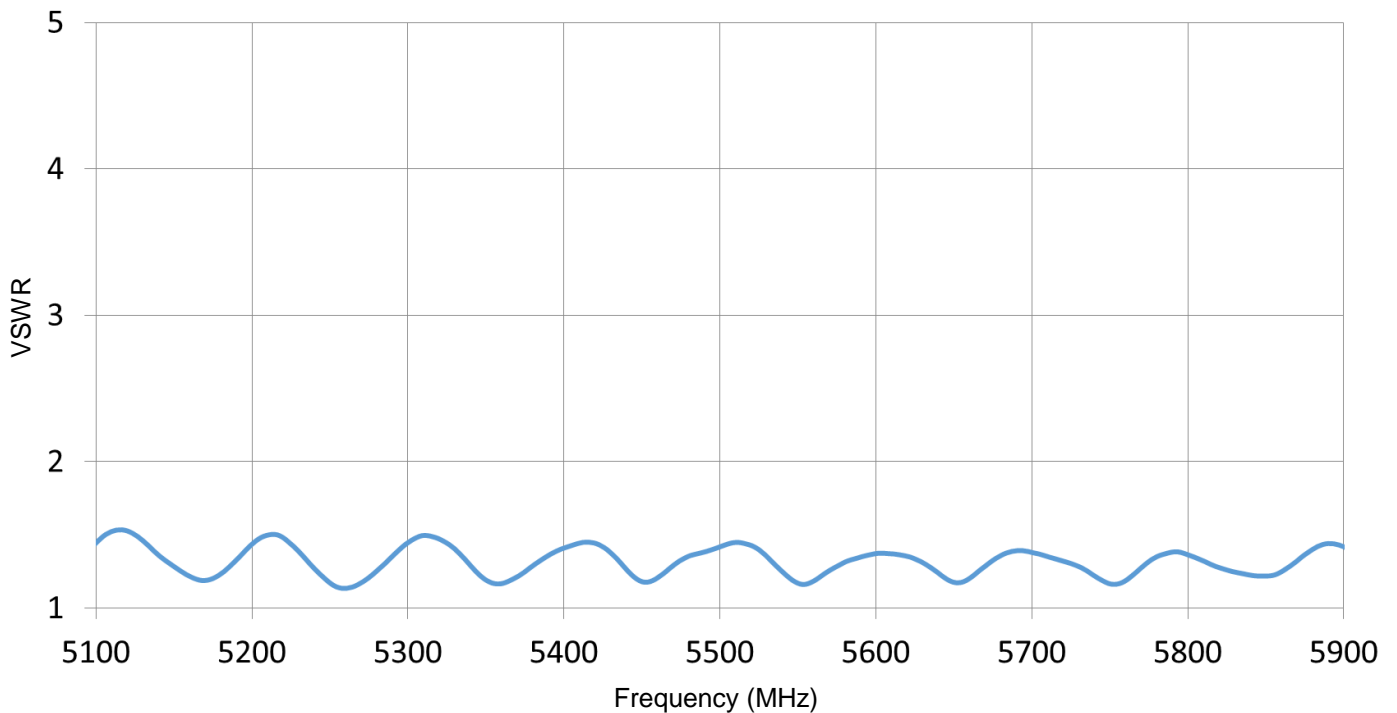
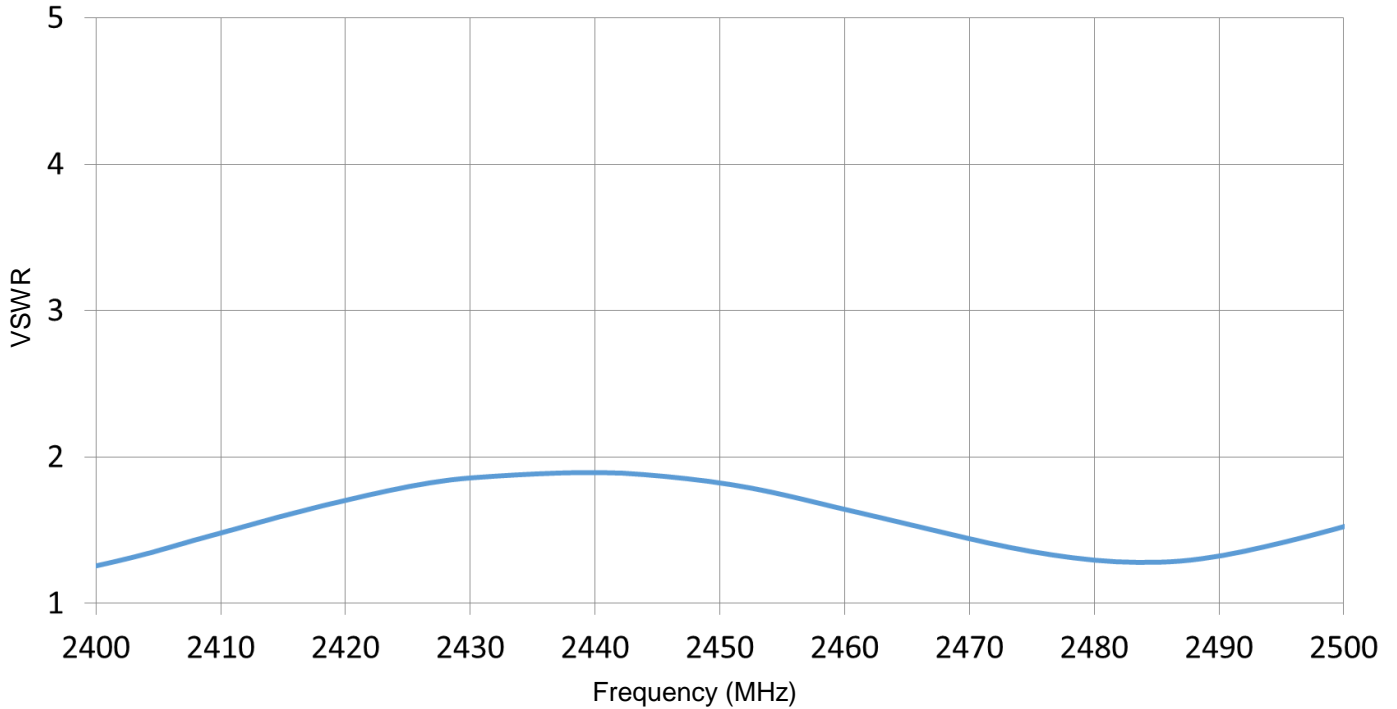
WiFi External Antenna Specifications.

Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

**VSWR (WiFi 2400-2485, 5150-5825 MHz)**

Typical characteristics in free-space

**VSWR:**



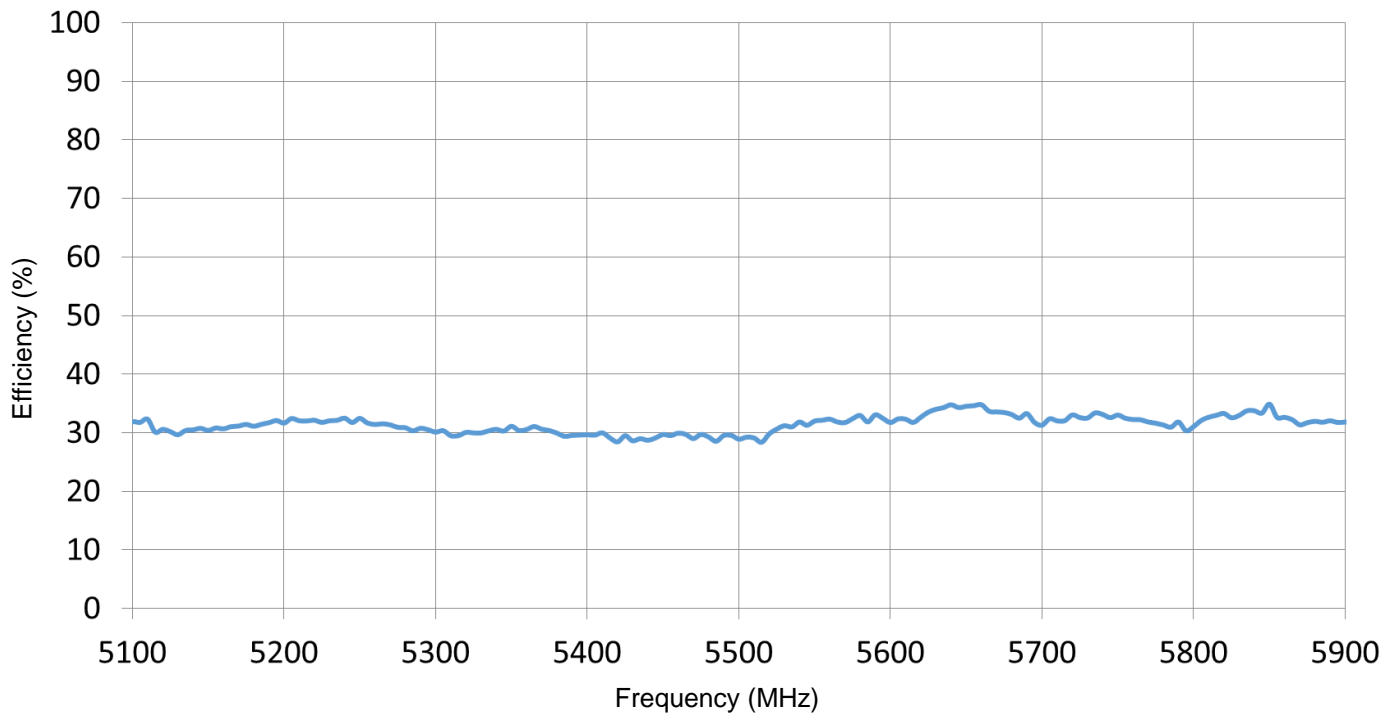
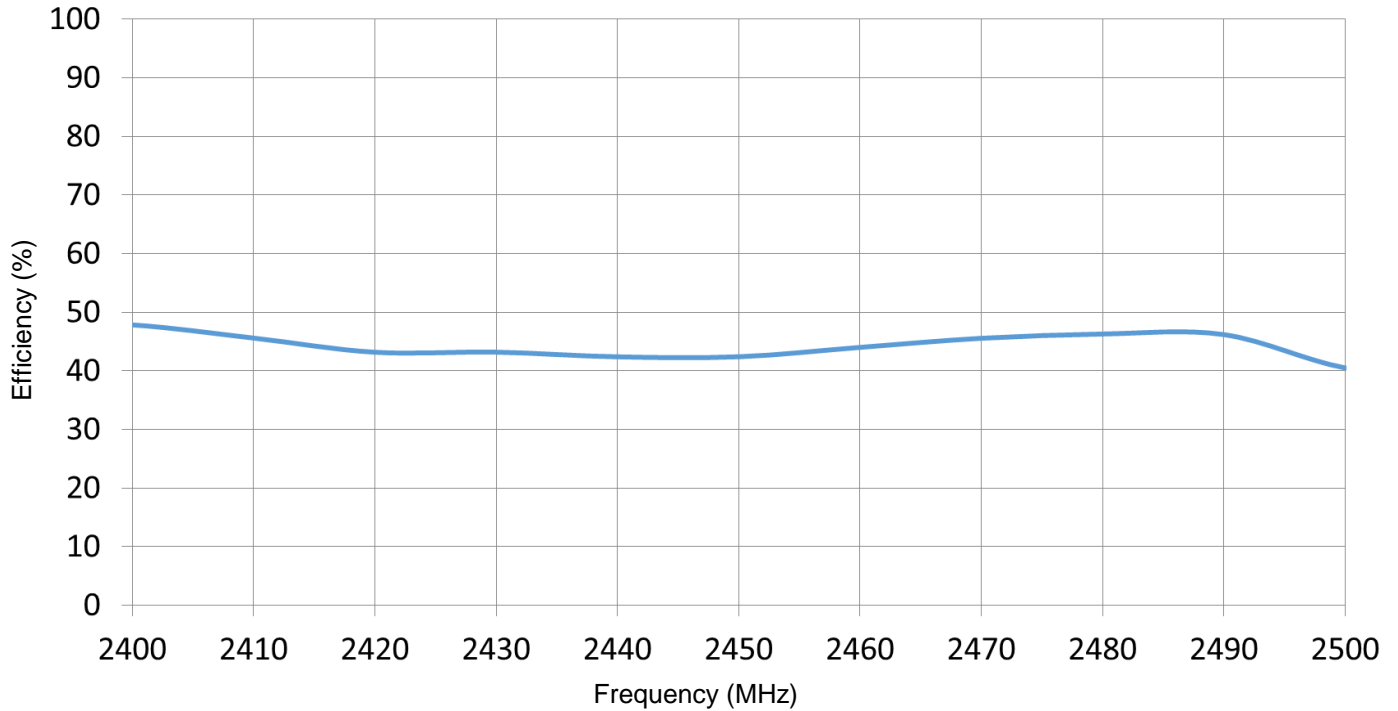


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## Efficiency (WiFi 2400-2485, 5150-5825 MHz)

Typical characteristics in free-space

### Efficiency:



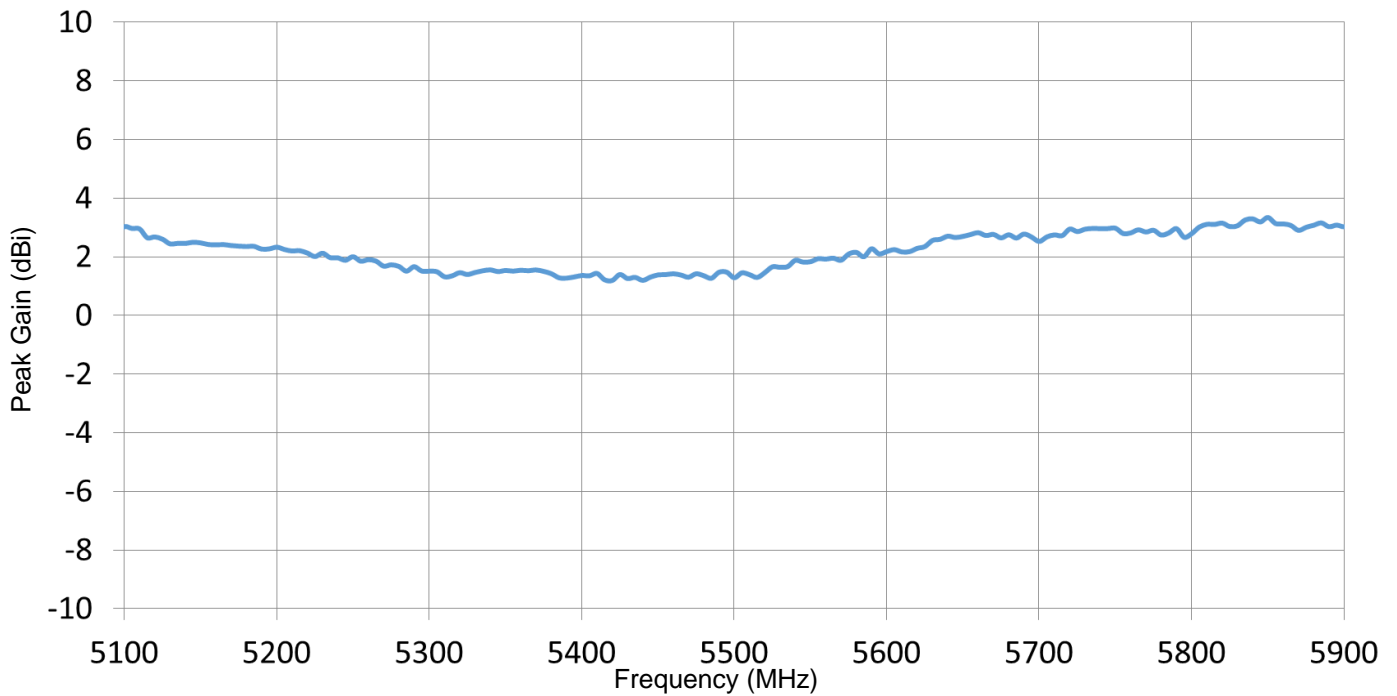
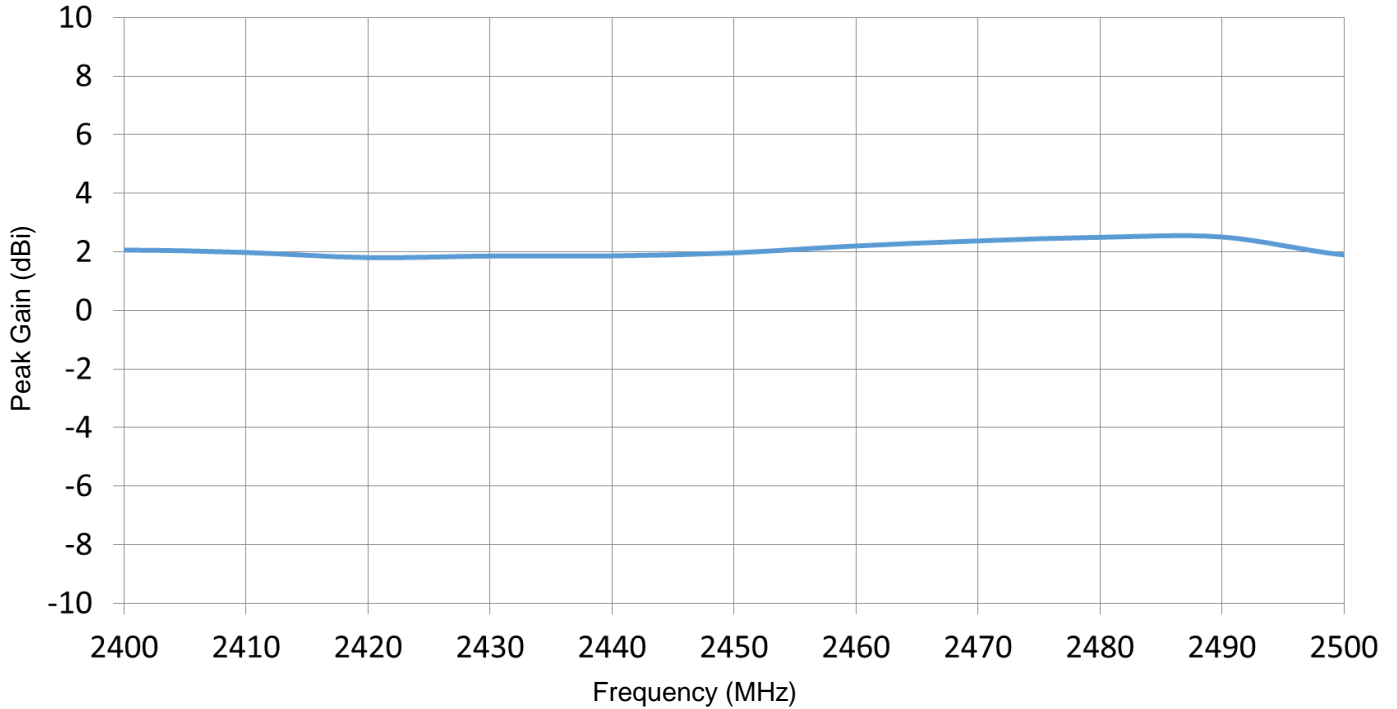


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## Peak Gain (WiFi 2400-2485, 5150-5825 MHz)

Typical characteristics in free-space

### Peak Gain:



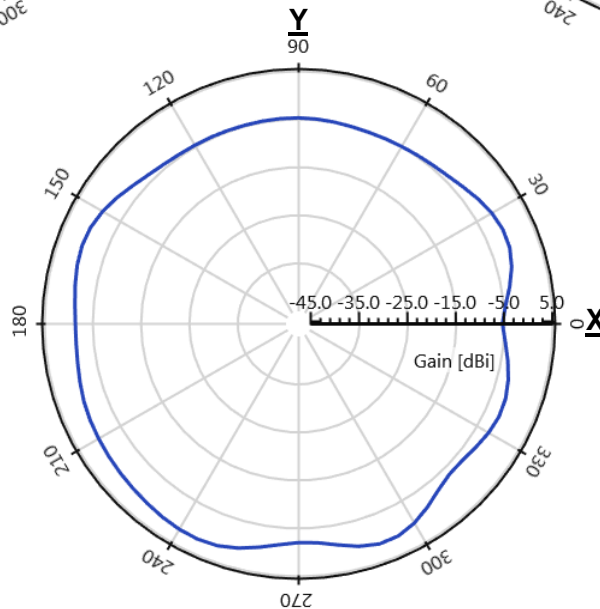
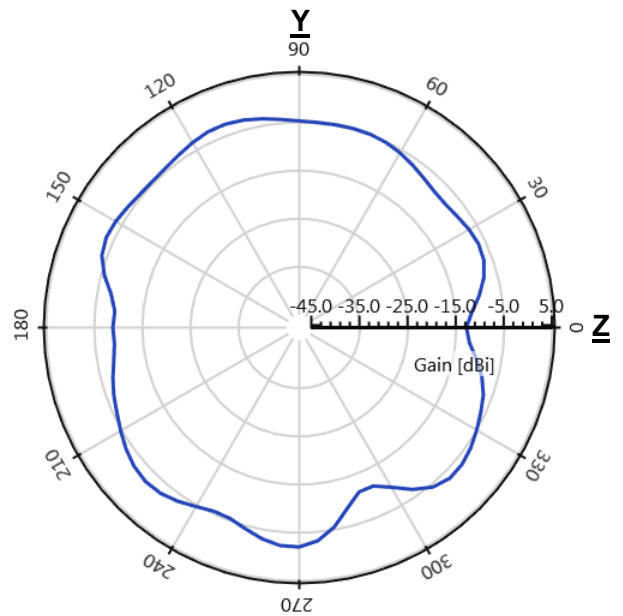
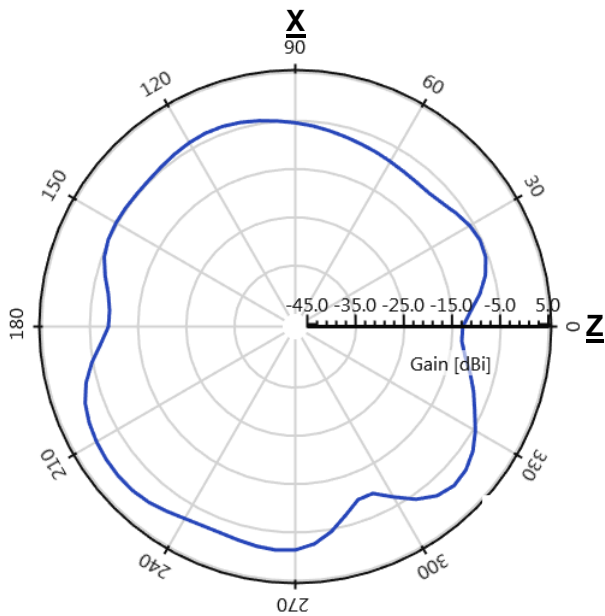
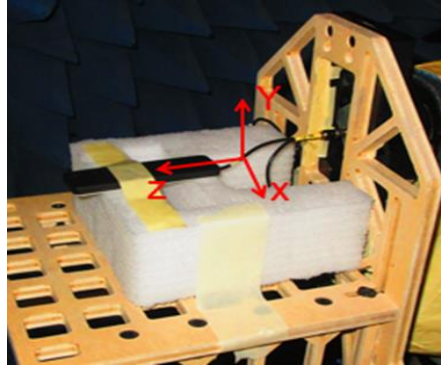


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## 2D Radiation Patterns (WiFi 2400-2500 MHz)

Typical characteristics in free-space

— 2440 MHz



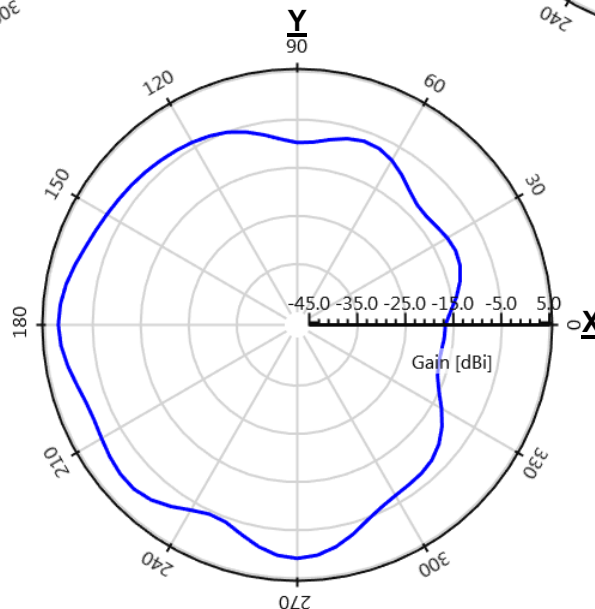
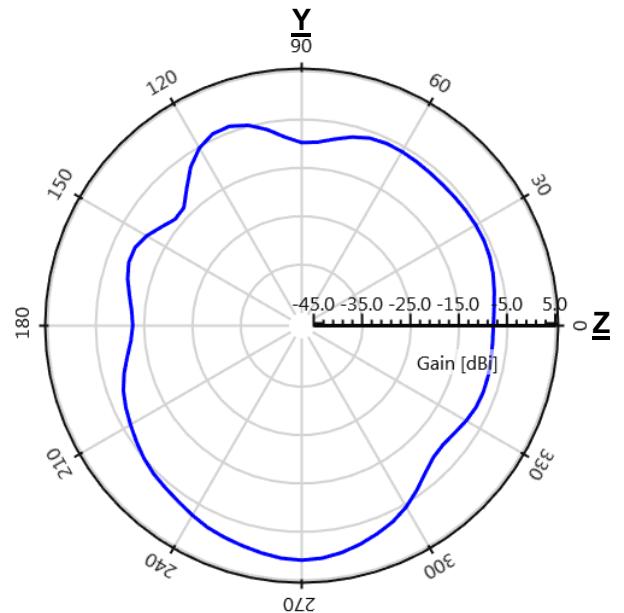
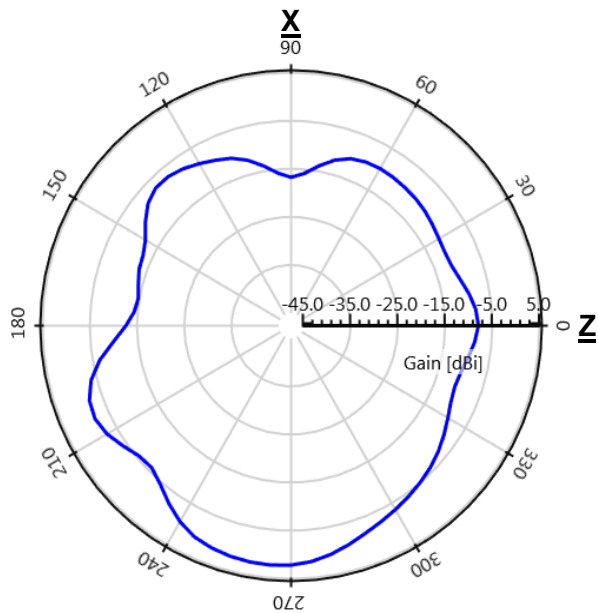
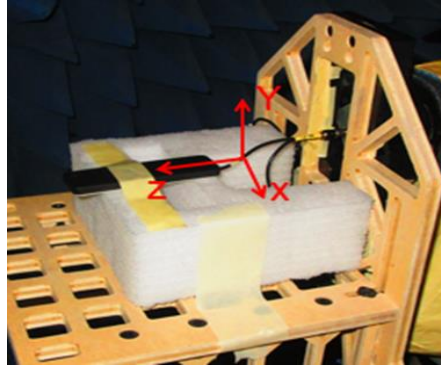


WiFi External Antenna Specifications.  
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## 2D Radiation Patterns (WiFi 5150-5850 MHz)

Typical characteristics in free-space

— 5200 MHz





WiFi External Antenna Specifications.

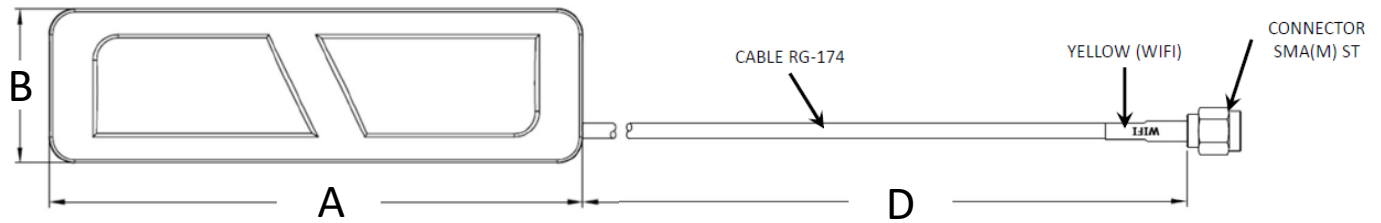
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**Mechanical Dimensions**

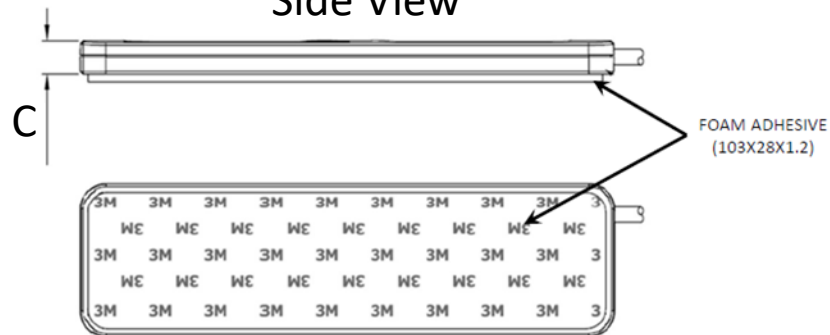
Typical antenna dimensions (mm)

Part Number	A (mm)	B (mm)	C (mm)	D (mm)
X1005323-W3A1SA10A1	105.1 ± 3.0	30.1 ± 1.5	6.7 ± 1.0	1000 ± 40.0

Top View



Side View



Bottom View