

# Outdoor Radome Omni Dual-Band WiFi Antenna

Part# W5030



The W5030 Radome Omni, a Pulse/Larsen dual-band WiFi omni antenna is designed for harsh outdoor environments where WiFi connection is needed in either the 2.4 GHz or 5 GHz bands. This robust antenna provides excellent mechanical stability and UV/IP67 protection to ensure a long, reliable, maintenance-free life.

The antenna is part of a Radome Omni (RO) series of antennas offered in many different frequencies from 698 MHz to 6 GHz with varying gains and N Male and Female connector options. The W5030 and all additional RO antennas are designed for installation on a mast or wall using an FB2BRACKET or FB3BRACKET.

## Features

- Frequency 2.4-2.5 / 5.15-5.875 GHz
- Omni-Direction with 3.5/6.5 dBi Gain
- UV Protected and IP67 rated
- Connector N-Male

## Applications

- Access Points
- Base Stations
- Public Safety
- Repeaters
- Small Cell

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| ELECTRICAL SPECIFICATIONS                       |                      |
|---|----------------------|
| Frequency 1 (GHz)                               | 2.4 - 2.5            |
| Frequency 2 (GHz)                               | 5.15 – 5.875         |
| Nominal Impedance ( $\Omega$ )                  | 50                   |
| VSWR (Max)                                      | 2:1                  |
| Average Peak Gain 2.4 GHz (dBi)                 | 3.5                  |
| Average Peak Gain 5X GHz (dBi)                  | 6.5                  |
| HPWB / Horizontal Plane                         | Omni                 |
| HPBW / Vertical Plane 2.4 GHz ( $^{\circ}$ TYP) | 45                   |
| HPBW / Vertical Plane 5X GHz ( $^{\circ}$ TYP)  | 25                   |
| Polarization                                    | Vertical             |
| Power Withstanding (W)                          | 20                   |
| E.S.D. Protection                               | External Recommended |
| Connector Type                                  | N Male               |

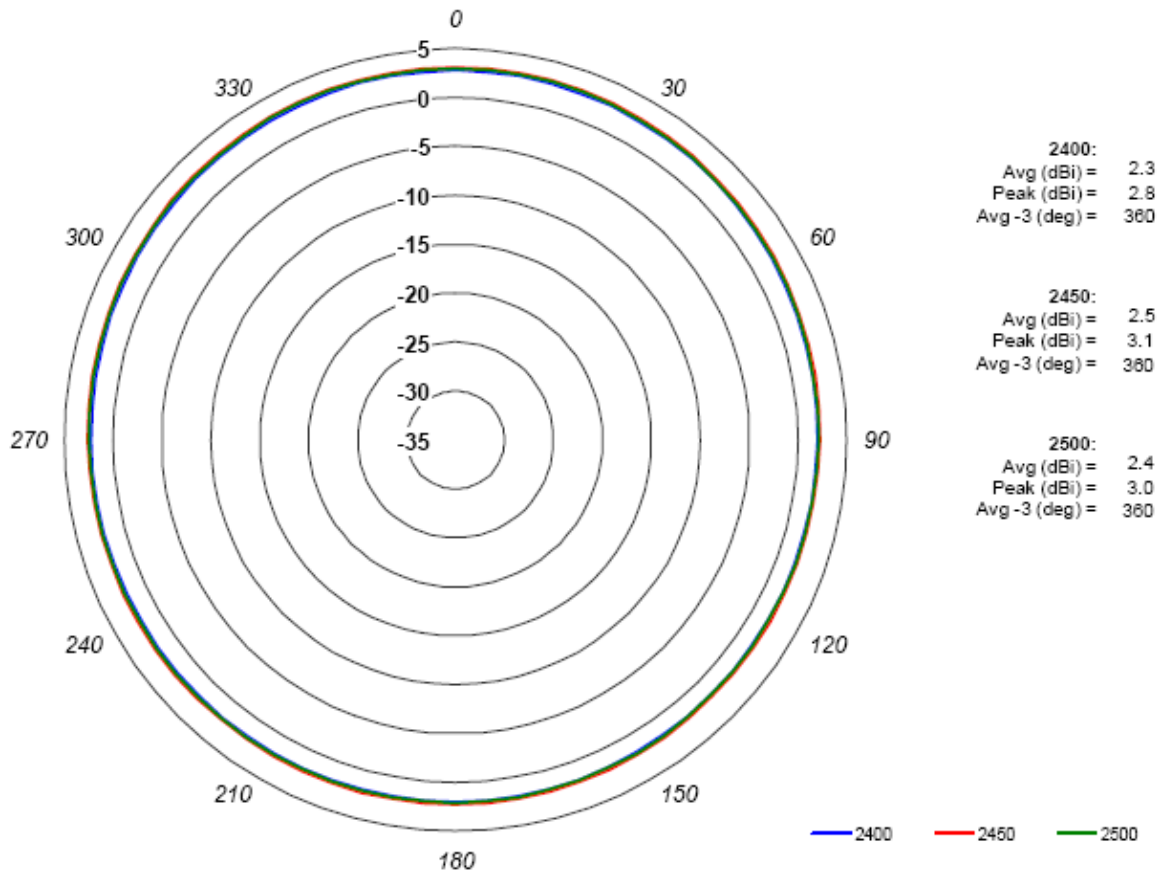
| ENVIRONMENTAL SPECIFICATIONS          |           |
|---------------------------------------|-----------|
| Operation Temperature ( $^{\circ}$ C) | -40 - +85 |

| MECHANICAL SPECIFICATIONS |   |
|---------------------------|---|
| Radome Material           | Pultruded Polyester/Fiberglass – UV Protected |
| Color                     | White   |
| Ingress Protection        | IP67  |
| Weight (grams)            | 166   |
| Wind Loading (MPH)        | 150   |
| Overall Length (inches)   | 6.81  |
| Side Loading @ 1 Ft (Lbs) | 30  |
| Pull Off (Lbs)            | 100   |

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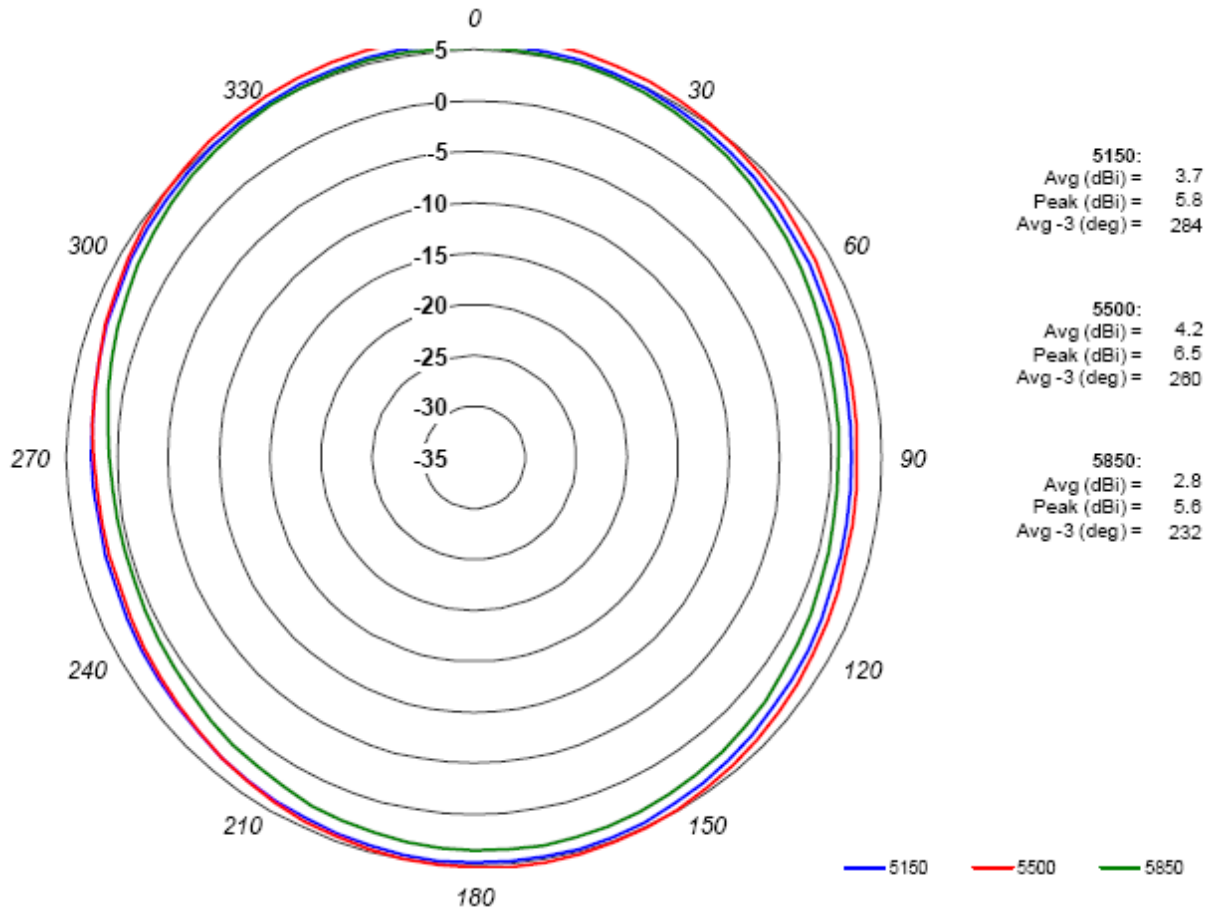
## HORIZONTAL PLANE 2.4 - 2.5 GHz



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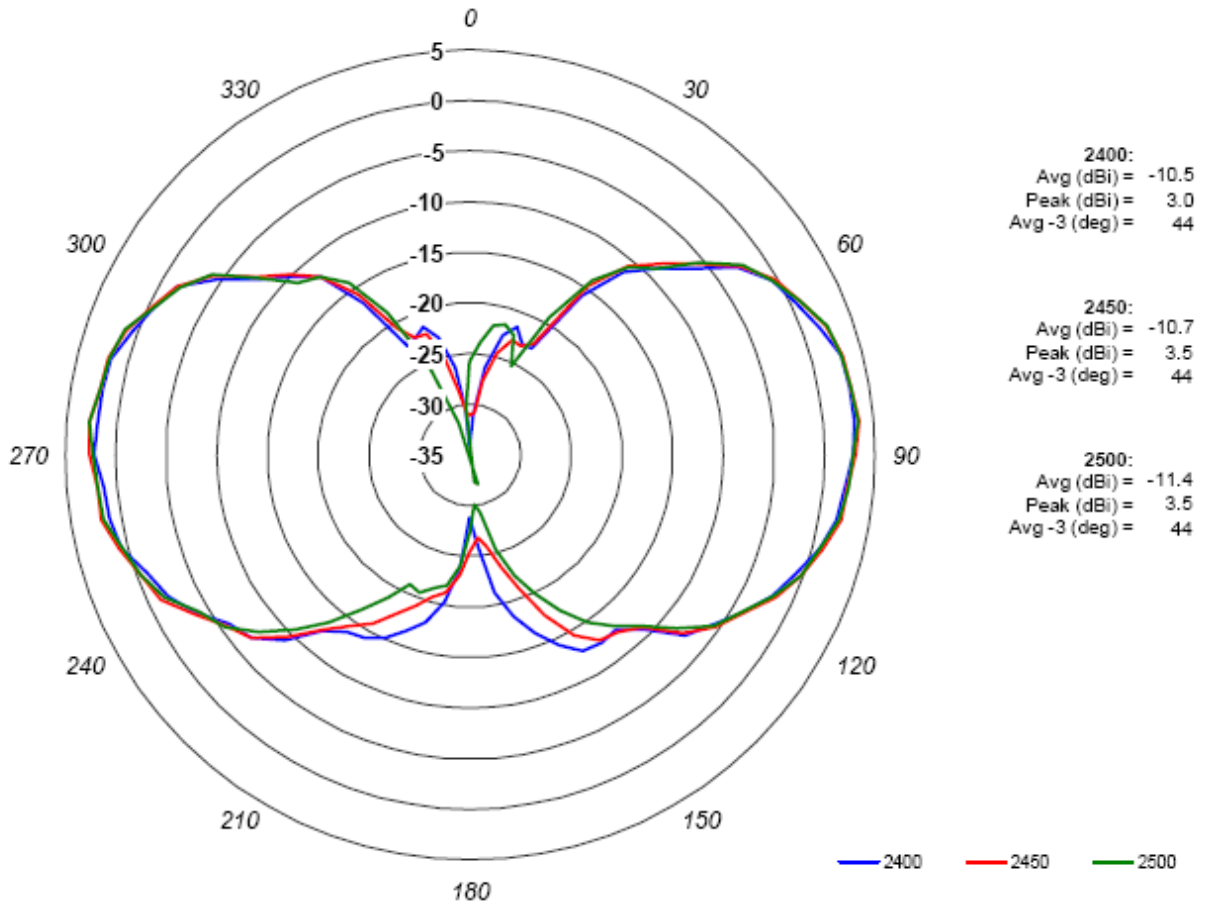
## HORIZONTAL PLANE 5.15 – 5.875 GHz



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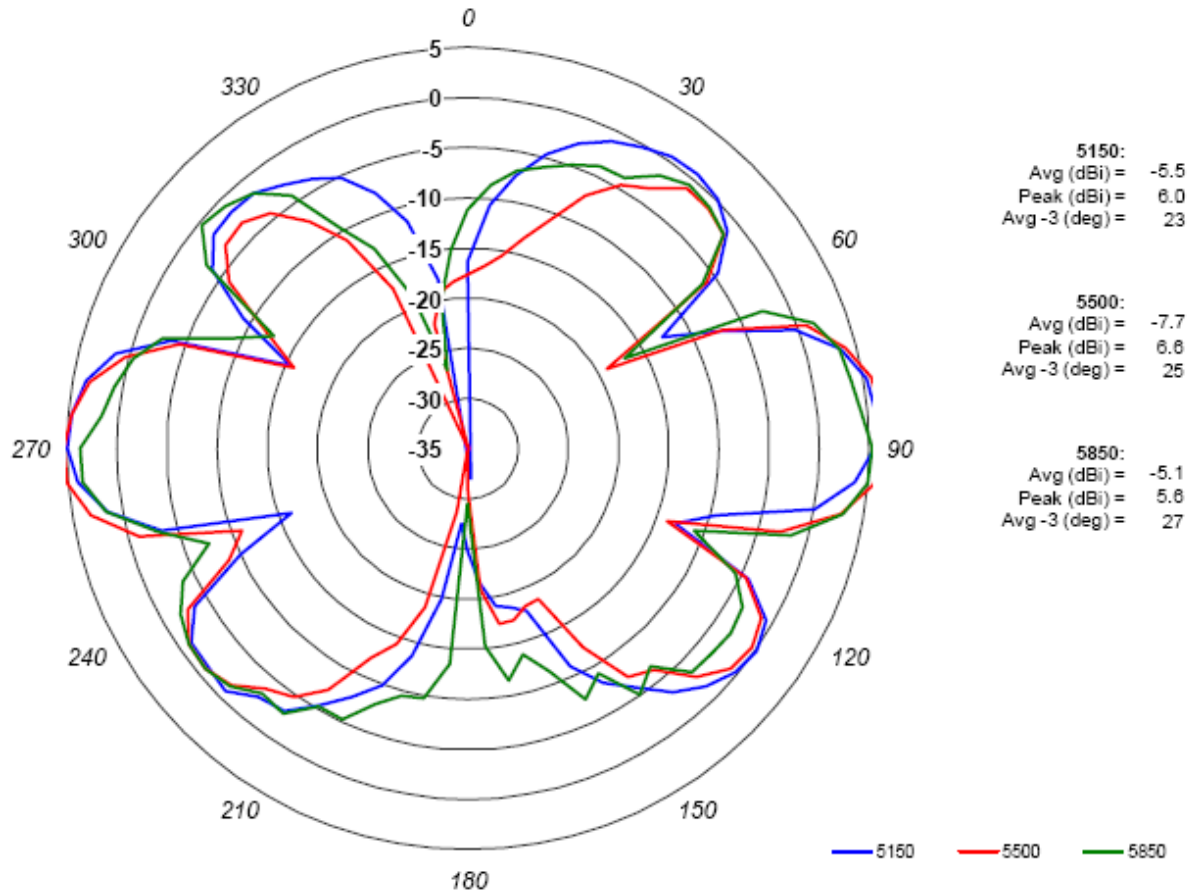
## VERTICAL PLANE 2.4 – 2.5 GHz



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## VERTICAL PLANE 5.15 – 5.875 GHz



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