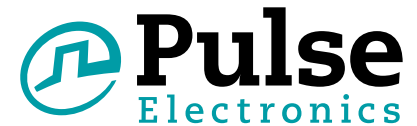# PIMinator™ Series
# Low PIM In-building Omni Antenna
# with Pigtail

*Pulse Part Number DASLTE500NF*

Industry leading -155 dBc certified low Passive Inter-Modulation (PIM) Distributed Antenna System (DAS) In-Building ceiling mount omni antennas.  The Pulse Electronics line of DAS in-building low PIM omni antennas meets the most demanding PIM requirements for 2G, 3G, and LTE/4G bands.

These low PIM antennas help meet increasing demand for high data rates and streaming video for mobile devices.  The wide band design meets the needs of operators around the world.

**Features**
- Industry leading -155 dBc PIM rating
- Covers cellular bands, WiFi and WiMAX from 698 through 5900 MHz
- Aesthetically pleasing injection molded radome
- PIM certified
- RoHS compliant product
- Patent pending

**Applications**
- In-Building DAS systems requiring best PIM performance

San Diego, CA  858 674 8100     Vancouver, WA 360 944 7551     Europe 49 7032 7806 0     Asia 86 755 33966678     North Asia 886 3 4356768     China 86 512 6807 9998

1     pulseelectronics.com/products/antennas     L155.D (9/14)

# PIMinator™ Series
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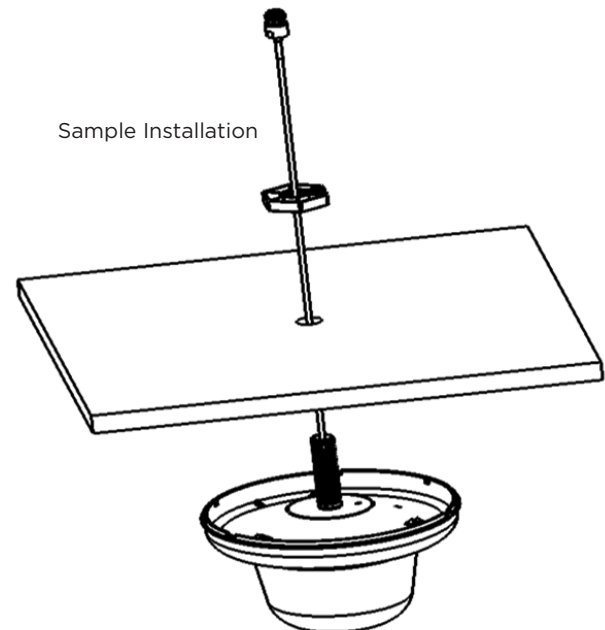*Pulse Part Number DASLTE500NF*

## Electrical Specifications

| | | |
|---|---|---|
| | Frequency [MHz] | 698-960/1710-2170/<br>2300-2700/4900-5900 |
| | Nominal Impedance [Ω] | 50 |
| VSWR | 698-960 MHz | 1.8:1 |
| | 1710-5900 MHz | 1.5:1 |
| Gain | 698-960 MHz [dBi typ] | 2 |
| | 1710-2700 MHz [dBi typ] | 6 |
| | 4900-5900 MHz [dBi typ] | 8 |
| Radiation Pattern | HPBW Horizontal Plane at 45° [°] | 360 |
| | HPBW Vertical Plane (698-960) [° typ] | 85 |
| | HPBW Vertical Plane (1710-5900) [° typ] | 50 |
| | Polarization | Vertical |
| | Power Rating [W] | 50 |
| | PIM at 2x20 Watts [dBc] | -155 |
| | Connector | N Female |
| | Cable Type | 1/4" low loss, low PIM, Plenum Rated |
| | Cable Length [Inches/mm] | 19.7 / 500 |

## Environmental Specifications

| Operating Temperature [°C] | -40 to +70 |
|---|---|

## Mechanical Specifications

| Radome Material | UV Protected, UL94 V-0 |
|---|---|
| Color | White |
| Weight [oz/g] | 17.28 / 490 |
| Overall Height [Inches/mm] | 4.59 / 116.5 |
| Diameter [Inches/mm] | 7.91 / 201 |
| Mounting | Ceiling [.75"/19mm Ø hole] |

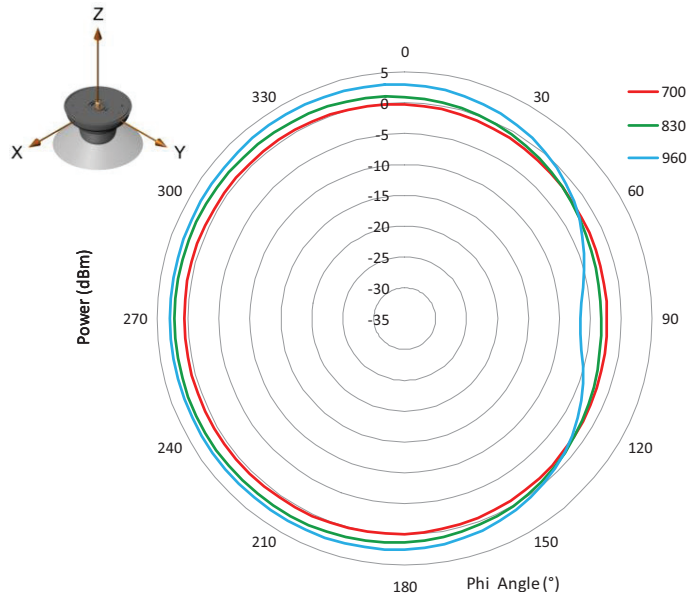Sample Installation

**Pulse** Electronics

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## Radiation Patterns

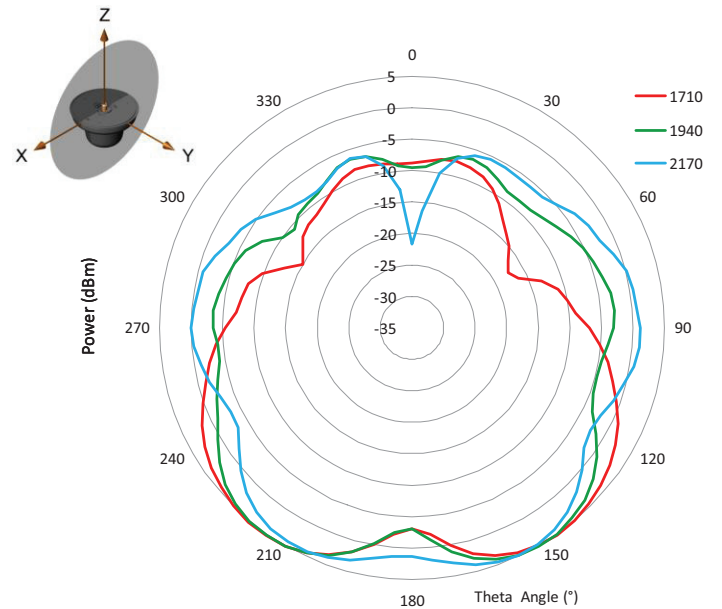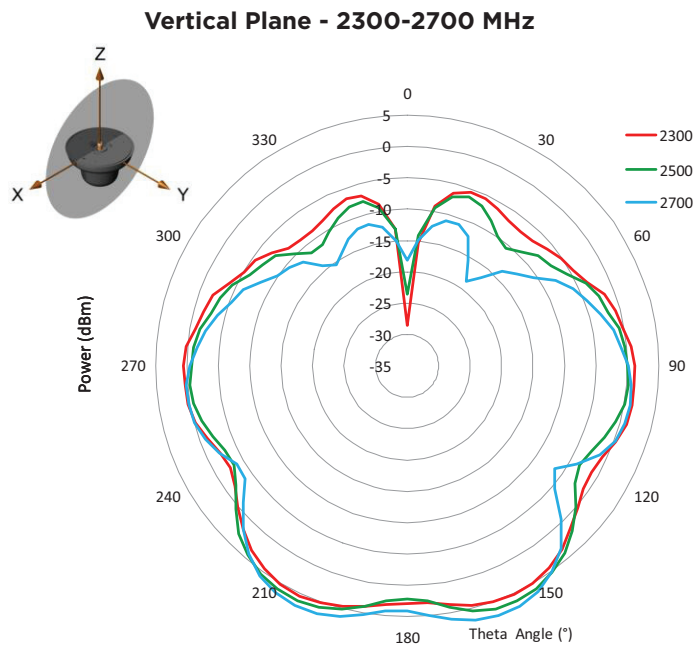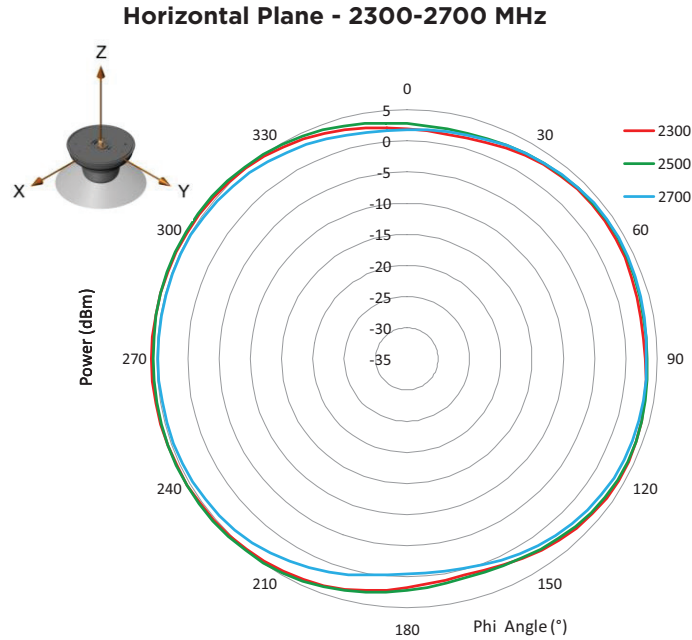**Horizontal Plane - 698-960 MHz**



Legend: 700, 830, 960

Power (dBm) vs Phi Angle (°)

**Horizontal Plane - 1710-2170 MHz**
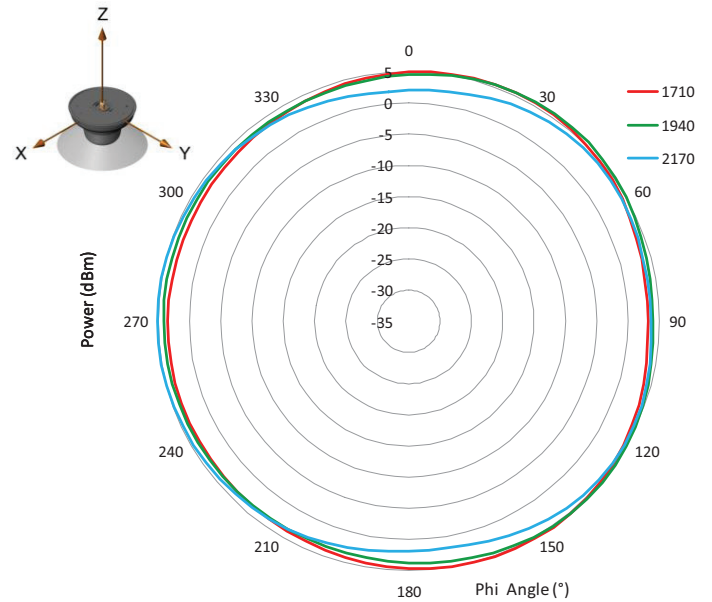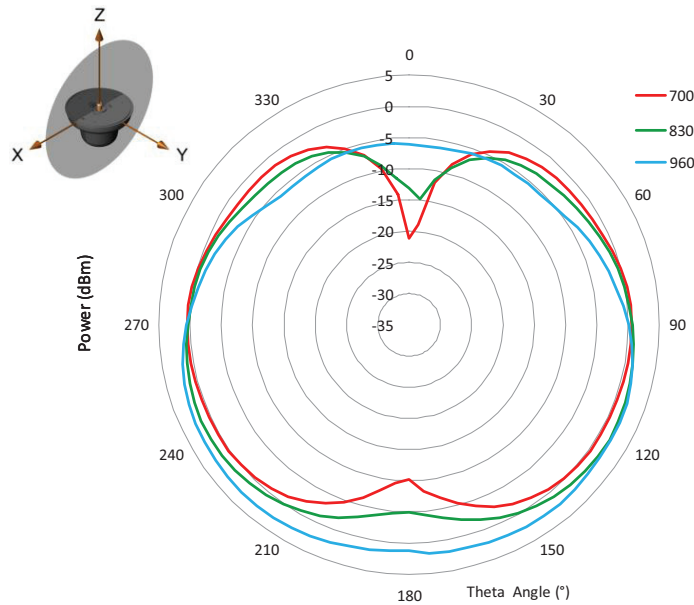


Legend: 1710, 1940, 2170

Power (dBm) vs Phi Angle (°)

**Vertical Plane - 698-960 MHz**



Legend: 700, 830, 960

Power (dBm) vs Theta Angle (°)

**Vertical Plane - 1710-2170 MHz**



Legend: 1710, 1940, 2170

Power (dBm) vs Theta Angle (°)

Pulse Electronics

# PIMinator™ Series
# Low PIM In-building Omni Antenna with Pigtail

*Pulse Part Number DASLTE500NF*

### Radiation Patterns

**Horizontal Plane - 2300-2700 MHz**



— 2300
— 2500
— 2700

Power (dBm)

Phi Angle (°)

**Vertical Plane - 2300-2700 MHz**



— 2300
— 2500
— 2700

Power (dBm)

Theta Angle (°)

## For More Information

**Pulse Electronics**