



## OC24527

### Vertically Polarized Omni Antenna 2400-2500 MHz/5150-5875 MHz

The wideband OC24527 antenna offers full-band coverage for 802.11b/a/g/n and includes all hardware required to mount indoors or outdoors. The antenna provides the “no compromise” performance expected from a single-band radio system in a dual-band radio. While many dual-band antennas are a compromise between the two operating bands, the Laird Connectivity OC24527 provides full-band coverage and omnidirectional coverage over both bands. With a design assisted by Laird Connectivity’s proprietary optimization tools, performance and value are unparalleled..

#### FEATURES AND BENEFITS

- Vertically polarized omnidirectional
- Rugged, lightweight, and water-resistant
- Compact size
- Full 802.11b/a/g/n wideband performance

#### APPLICATIONS

- Outdoor metropolitan mesh networks
- Enterprise WLAN networks
- Indoor/outdoor mast mounts
- High to medium density customer premise locations
- MIMO applications

#### ELECTRICAL SPECIFICATIONS

|                                 |                 |           |
|---------------------------------|-----------------|-----------|
| Model Name                      | OC24527         |           |
| Operating Frequency (MHz)       | 2400-2500       | 5150-5875 |
| VSWR - Avg                      | 2.0:1           |           |
| Gain (dBi)                      | 4.5             | 7.5       |
| Nominal Impedance (Ohms)        | 50              |           |
| Max Power - Ambient 25°C (W)    | 10              |           |
| Vertical Plane 3 dB Beamwidth   | 28°             | 15°       |
| Horizontal Plane 3 dB Beamwidth | Omnidirectional |           |

#### MECHANICAL SPECIFICATIONS

|                                  |   |
|----------------------------------|---|
| Dimensions - h x d - mm (inches) | 280.2 x 25.4 (11.03 x 1.0)  |
| Weight - kg (oz.)                | 0.15 kg (5.29) - without hardware kit                               |
| Mounting                         | Connector fixed or mast mount kit, upright and inverted orientation |
| Radome Material                  | Polycarbonate, UV, White  |
| Ingress Protection Rating        | IP67  |

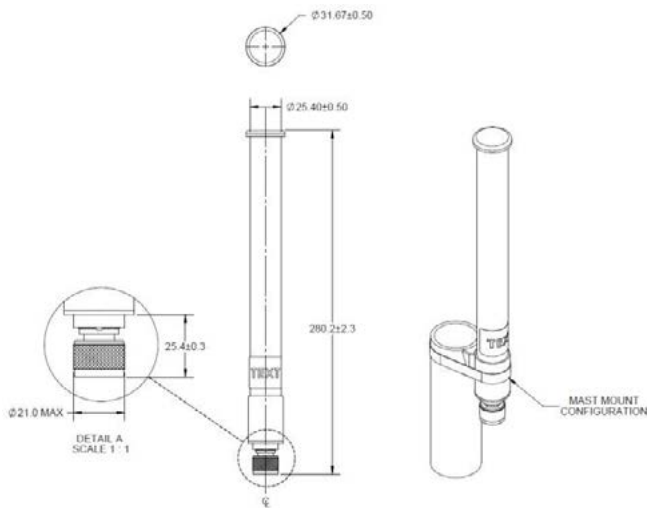
## ENVIRONMENTAL SPECIFICATIONS

|   |                              |
|---|------------------------------|
| Operating Environment (Indoor or Outdoor) | Indoor/Outdoor               |
| Operating Temperature - °C (°F)           | -30 to +70°C (-22 to +158°F) |
| Storage Temperature - °C (°F)             | -40 to +85°C (-40 to +185°F) |
| Material Substance Compliance             | RoHS                         |

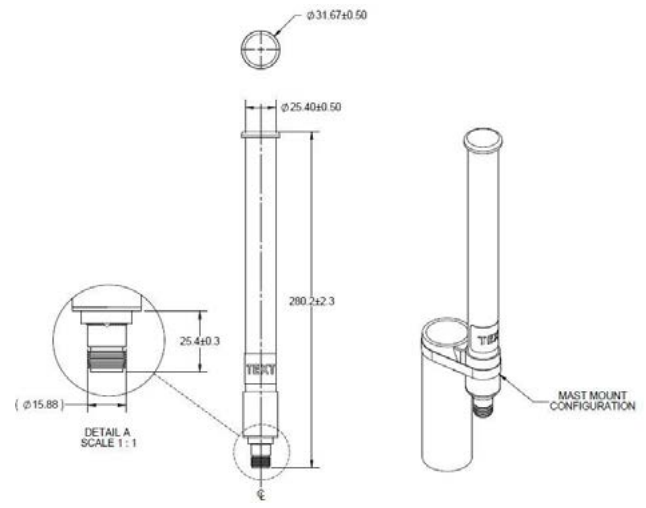
## CONFIGURATION

| PART NUMBER | CONNECTOR                        |
|-------------|----------------------------------|
| OC24527-FNM | Type N, Male, Fixed, Tri-Metal   |
| OC24527-FNF | Type N, Female, Fixed, Tri-Metal |

## MECHANICAL DRAWING AND MOUNTING

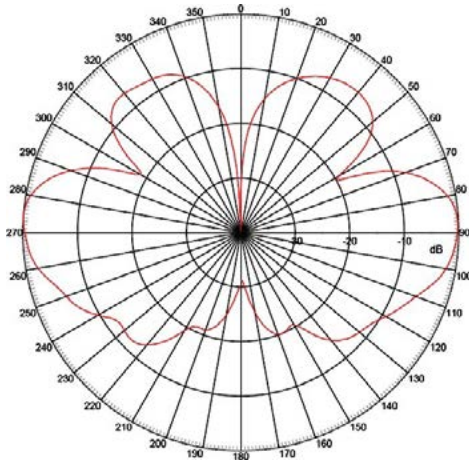


OC24527-FNM

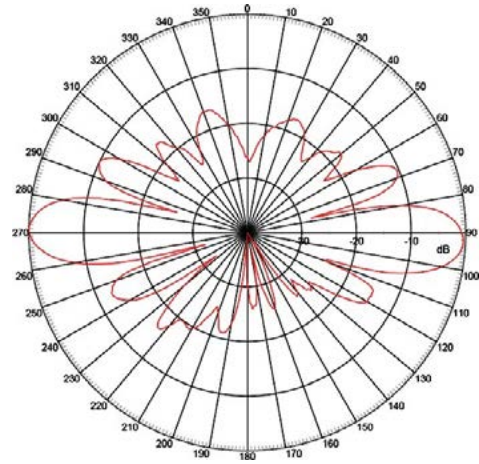


OC24527-FNF

## RADIATION PATTERNS



2.45 GHz



5.55 GHz

### TE TECHNICAL SUPPORT CENTER

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08/22 Original