

# LOG PERIODIC ANTENNA

High Performance Wide Band Log Periodic Antenna



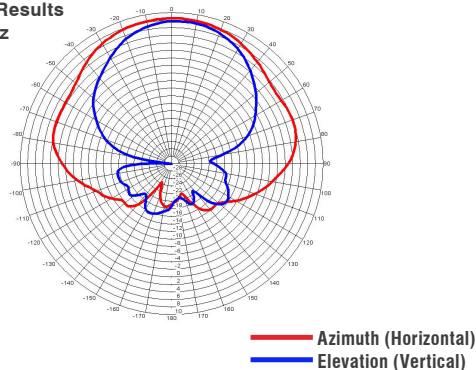
314411 - N-Female (shown)  
314475 - F-Female

- Works on all worldwide cellular bands for voice and 4G data: LTE/CDMA/GSM/UMTS/AWS
- High performance for weBoost cellular repeater-boosters: 8 to 10 dBi broadband
- Designed for building exterior installation; direct at cell tower for best signal
- High efficiency and compact design
- UV stable white sealed radome
- Rugged and waterproof for all weather operation
- Simple install kit with tilt/swivel mast bracket for 1.25" to 2" diameter pipe/mast
- 2 year warranty

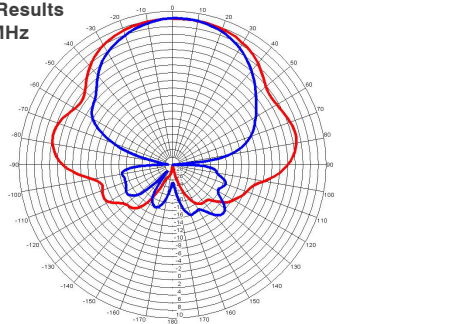
## ELECTRICAL SPECIFICATIONS

|                          |                                  |
|--------------------------|----------------------------------|
| Frequency range (MHZ)    | 698-960 / 1710-2700              |
| Polarization             | Vertical / Horizontal            |
| Gain(dBi)                | 8.5 Avg / 9.5 Peak               |
| Half-power beam width(°) | Low Band: 100-109 Horiz, 65 Vert |
| Half-power beam width(°) | High Band: 70-85 Horiz, 55 Vert  |
| Front-to-back ratio(dB)  | ≥10 AVG                          |
| Impedance(Ω)             | 50 (314411) 75 (314475)          |
| VSWR                     | ≤1.6:1 / 1.4:1 avg               |
| Maximum input power(W)   | 100                              |
| Lightning Resistance     | DC Ground                        |

Actual Test Results  
698-960 MHz  
Typical



Actual Test Results  
1700-2700 MHz  
Typical



## MECHANICAL SPECIFICATIONS

| Model                           | 314411                        | 314475   |
|---------------------------------|-------------------------------|----------|
| Connector                       | N-Female                      | F-Female |
| Dimensions (in / mm)            | 11.75x8.25x2.50 / 300x210 x65 |          |
| Dimensions, boxed (in / mm)     | 13.50x8.25x3.25 / 385x215 x82 |          |
| Antenna weight (lb / kg)        | 1.8 / 0.8 with bracket        |          |
| Packing weight (lb / kg)        | 2.0 / 0.9                     |          |
| Wind loading area (sq ft / m)   | ≤2.13 / 0.2                   |          |
| Rated wind velocity (mph / kph) | 90 / 144                      |          |
| Mounting mast diam. (in / mm)   | 1.5-2.0 / 40-50               |          |
| Radiator material               | Aluminum                      |          |
| Radome material                 | ABS Anti UV                   |          |
| Radome color                    | White                         |          |
| Water resistance                | IPX Weather rated             |          |
| Operating temperature( °C / F)  | -40 to +55 / -40 to +131      |          |

314411-314475\_SS\_11-03-15b\_R01