



### 2.5 GHZ VERTICAL POLARIZATION HIGH-PERFORMANCE 120° SECTOR ANTENNA

The Laird Technologies J23014V00-120N 2.5 GHz wide-band vertically polarized 120 degree sector antenna covers the frequency band from 2.3-2.7 GHz. Extremely low side lobes, null fill below the horizon and uniform energy distribution within the coverage area are achieved thanks to our highly skilled engineering staff and the utilization of our proprietary artificial intelligence RF optimizing development tool. The antenna meets all aspects of ETSI EN 301.525 CS. Laird Technologies' suite of high-performance sector antennas feature proprietary design elements resulting in extremely high levels of system performance and ruggedness while maintaining very slim profiles with low wind and ice loading.

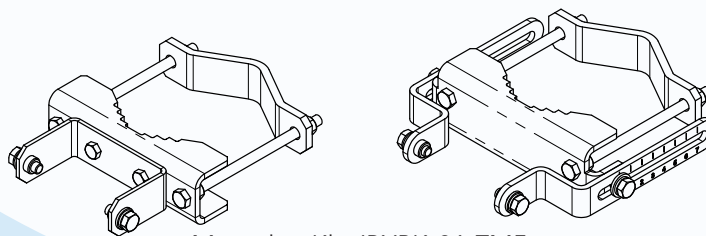
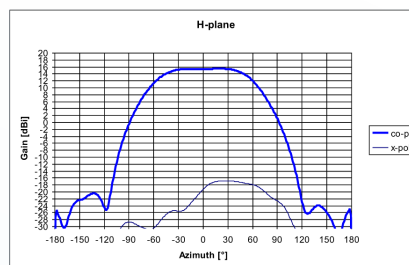
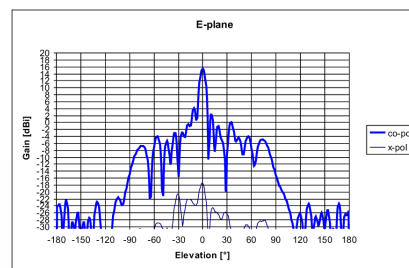
#### FEATURES

- Best in class f/b ratio
- Maximum null fill below the horizon
- Extraordinary low side lobe performance
- Rugged tilt mount hardware included
- Robust carrier class construction

#### MARKETS

- Wireless broadband service provider
- Large carrier class deployment
- Optimized for MIMO space time processing
- Outstanding levels of antenna to antenna co-located isolation

| PARAMETER                       | SPECIFICATIONS                         |
|---------------------------------|--|
| Frequency range                 | 2.3 - 2.7 GHz                          |
| Gain @ 2.5 GHz                  | 15.5 dBi                               |
| Maximum VSWR                    | 1.8:1                                  |
| 3 dB beamwidth - Elevation      | 7°                                     |
| 3 dB beamwidth - Azimuth        | 120°                                   |
| Elevation null fill             | Down to -25°                           |
| Azimuth side lobes              | ETSI EN 301.525 CS                     |
| Polarization                    | Vertical                               |
| Lightning protection            | DC-grounded                            |
| Minimum front-to-back isolation | ETSI EN 301.525 CS, 30 dB              |
| Maximum input power             | 40W average, 480W peak                 |
| Input impedance                 | 50 ohm                                 |
| Minimum cross-polarization      | ETSI EN 301.525 CS                     |
| Mechanical size                 | 39.9" x 4.3" x 8.0"                    |
| Antenna Weight                  | 3.0 kg                                 |
| Wind survival rating            | Operational 100 mph / survival 136 mph |
| Antenna connection              | Type N female                          |
| Radome                          | ASA gray                               |
| Mount style                     | Mast mount                             |
| Mounting hardware               | Tilt mount kit 1.5" to 4.5" diameter   |
| Temperature                     | -40°C to +70°C                         |



Mounting Kit: JBXRK-01-TM5

#### global solutions: local support™

Americas: +1.847.839.6907  
IAS-AmericasEastSales@lairdtech.com

Europe: +1.32.80.7866.12  
IAS-EUSales@lairdtech.com

Asia: +1.65.6.243.8022  
IAS-AsiaSales@lairdtech.com

[www.lairdtech.com](http://www.lairdtech.com)

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