Laird TECHNOLOGIES®

Innovative **Technology** for a **Connected** World

Broadband Wireless Antenna

J23016D00-90N

2.3 GHZ DUAL-LINEAR POLARIZATION HIGH-PERFORMANCE 90° SECTOR

The Laird Technologies J23016D00-90N 2.3 GHz wideband, dual linear polarization 90° sector antenna, covers frequencies from 2.3 to 2.7 GHz. Extremely low side lobes, null fill below the horizon, and uniform energy distribution with 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 features 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 ✓RoHS

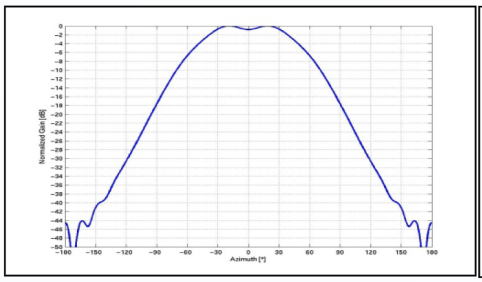
- Extraordinary low side lobe performance
- Maximum null fill below the horizon
- Best-in-class f/b ratio
- Robust carrier class construction
- Rugged tilt mount hardware included

MARKETS

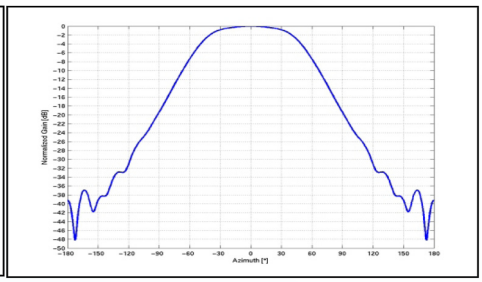
- Wireless broadband service provider
- Large carrier class deployment
- Optimized for MIMO space timing processing
- Outstanding levels of antenna-to-antenna co-located isolation
- WiMAX

ANTENNA PATTERNS

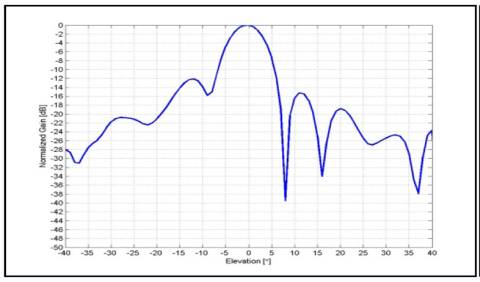
Vertical Polarization



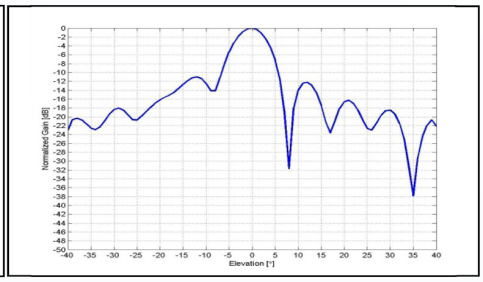
Horizontal Polarization



Horizontal Polarization



Vertical Polarization



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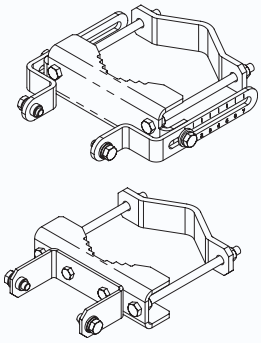
J23016D00-90N

SPECIFICATIONS

PARAMETER	SPECIFICATIONS
Antenna part number	J23016D00-90N
Frequency range	2.3-2.7 GHz
Gain @ 2.5 GHz	16 dBi
Maximum VSWR	1.8:1
3 dB beamwidth- Azimuth	90°
3 dB beamwidth- Elevation	7°
Elevation null fill	Down to -25°
Azimuth sidelobes	ETSI EN 301.525 CS, -30 dB for Az > [135°]
Polarization	Dual horizontal/vertical
Port-to-port isolation	>25 dB
Minimum front-to-back isolation	ETSI EN 301.525 CS, 30 dB
Maximum input power	40 W average, 480 W peak
Input impedance	50 ohm
Minimum cross-polarization	ETSI EN 301.525 CS
Mechanical size	39.8 in x 15.7 in x 8.3 in
Antenna weight	9.2 kg
Wind survival rating	Operational 100 mph/ Survival 136 mph
Antenna connection	Type N female
Radome	ASA white
Mount style	Mast mount
Mounting hardware	Tilt mount kit 1.5 in to 4.5 in dia.
Temperature	-40°C to +70°C
Lightning protection	DC-grounded



Mounting Kit:
JBXRK-01-TM5

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