Laird TECHNOLOGIES®

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

Broadband Wireless Antenna

J51017V00-60N

5.0 GHz VERTICAL POLARIZATION HIGH-PERFORMANCE 60° SECTOR

The Laird Technologies J51017V00-60N 5.0 GHz wideband, vertically polarized 60° sector antenna, covers frequencies from 4.9 to 5.9 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 302.326-3 SS3. 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.

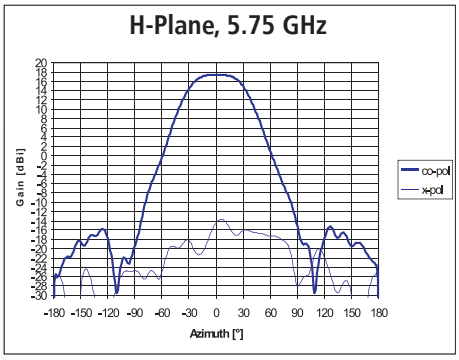
FEATURES ✓RoHS

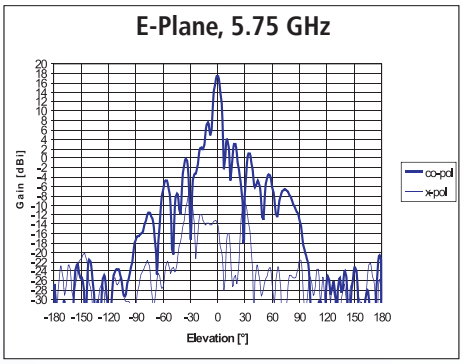
- 4.9 to 5.9 GHz full-band coverage
- Ultra-low side lobe performance
- Maximum null fill below the horizon
- Uniform cell coverage
- Rugged carrier class construction

MARKETS

- High multi-path environment
- Large carrier class deployment
- Wireless broadband service provider
- Optimized for MIMO space time processing
- WiMAX

ANTENNA PATTERNS





global solutions: local support™

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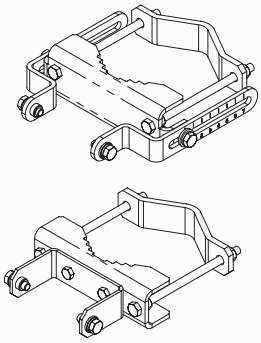
SPECIFICATIONS

PARAMETER	SPECIFICATIONS
Antenna part number	J51017V00-60N
Frequency range	4.9-5.9 GHz
Peak gain	17.5 dBi (17 dBi typical)
Minimum gain	16.5 dBi @ 5.15-5.3 GHz, 16 dBi @ 4.9 GHz
Maximum VSWR	1.7:1
3 dB beamwidth- Azimuth	60°
3 dB beamwidth- Elevation	7°
Front-to-back ratio	> 35 dB
Azimuth and elevation sidelobes	ETSI 302.326-3 SS3, SS2 @ 4.9 GHz
Cross-polarization	ETSI EN 302.326-3 SS3
Elevation null fill	Down to -25°
Polarization	Vertical
Input impedance	50 ohm
Maximum input power	20 W average, 240 W peak
Mounting hardware	Tilt mount kit 1.5 in to 4.5 in dia.
Lightning protection	DC-grounded
Temperature	-40°C to +70°C
Mechanical size	18.2 in x 4.7 in x 2.8 in
Antenna weight	1.2 kg
Wind survival rating	Operational 100 mph/ Survival 136 mph
Antenna connection	Type N female
Radome	ASA / Aluminum
Mount style	Mast mount



Mounting Kit:
JBXRK-01-TM5

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