Laird TECHNOLOGIES

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

S49016120PNF
5.0 GHz Directional Sector Antenna

VERTICAL POLARIZATION HIGH-PERFORMANCE 120° SECTOR ANTENNA

The Laird Technologies S49016120PNF antenna offers full frequency band coverage from 4.90 to 5.85 GHz. and is designed to provide wide angle directional coverage from a wall or mast mounting location. The antenna can also be used as part of a sectorized omnidirectional base antenna with four antennas used to provide 360° coverage from the site. The antenna is enclosed in a rugged UV stabile ASA radome designed to provide years of a trouble free service. Applications include any 802.11a enterprise access point system deployment including educational or industrial campuses, healthcare, and transportation terminals.

FEATURES RoHS

- Best in class f/b ratio
- Maximum null below the horizon
- Extraordinary low side lobe performance
- Rugged tilt mount hardware included
- Slim diminutive profile

MARKETS

- 802.11a enterprise access point
- Educational and industrial campuses, healthcare centers, and transportation terminal
- Optimized for MIMO space time processing
- Outstanding levels of antenna to antenna co-located isolation
- WiMAX

global solutions: local support ™

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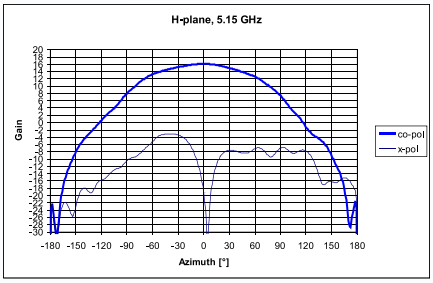
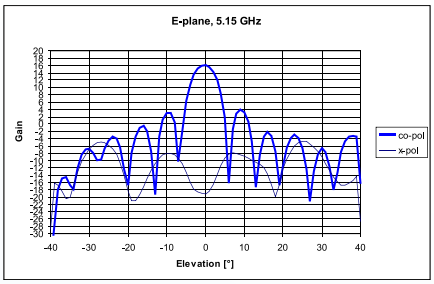
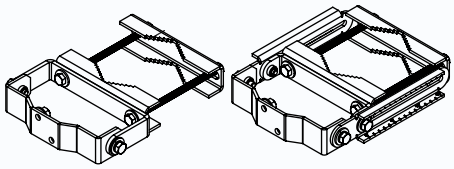
PARAMETER	SPECIFICATIONS
Part number	S49016120PNF
Frequency range	4.90-5.85 GHz
Gain	15.5 dBi
Maximum VSWR	2.0:1
3dB beamwidth - Elevation	5.5°
3dB beamwidth - Azimuth	120° ±15°
Azimuth sidelobes	ETSI EN 302.085 CS1
Polarization	Vertical
Lightning protection	DC - Grounded
Minimum front-to-back isolation	25 dB
Maximum input power	20 W average, 250 W peak
Input impedance	50 Ohm
Minimum cross-polarization	15 dB
Mechanical size	24.6 in x 2.0 in x 2.7 in
Antenna weight	1.95 lbs
Wind survival rating	Operational 100 mph / survival 136 mph
Antenna connection	type N female
Radome	ASA light grey
Mount style	mast mount
Mounting hardware	15° tilt mount kit 1.5 in to 3.5 in dia.
Temperature	-40°C to +70°C







Mounting Kit: 957658

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