



Smart Technology. Delivered.

# VERTICALLY POLARIZED SECTOR ANTENNAS

## S4901xx



### 4900-5850 MHZ VERTICALLY POLARIZED SECTOR ANTENNA

The vertically polarized ultra wide-band 5GHz sector antenna systems offered by Laird Technologies are constructed of UV stable ASA plastic radomes and galvanized steel brackets with stainless steel hardware for long service life in the most demanding conditions. The ultra wide-band operation allows a single antenna to cover a wide frequency range thereby allowing the operator maximum flexibility in his network. The antennas are DC Grounded for lightning/ESD protection. The heavy duty bracket system adjusts for up to 15° of downtilt.

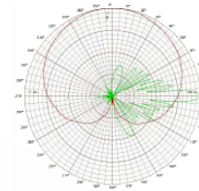
#### FEATURES

- High-gain 16 and 17dBi in a small form factor
- Low wind loading: 160MPH survivability
- Vertically polarized, ultra wide-band operation
- Type N female integrated connector
- Galvanized steel tilt bracket for up to 3.5" dia pole

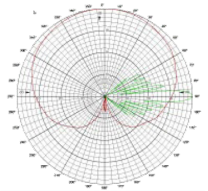
#### MARKETS

- 5.8GHz U-NII band applications
- Point-to-multi-point systems
- Base station antennas
- 802.11a applications
- Public safety

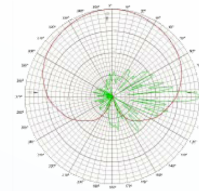
PARAMETER	S4901790PNF	S49016120PNF
Frequency range	4900 - 5850 MHz	4900 - 5850 MHz
VSWR	1.8:1	1.8:1
Impedance	50 ohm	50 ohm
Input power	10W	10W
Pole diameter (OD)	1.5"- 3.5" (38-89mm)	1.5"- 3.5" (38-89mm)
Operating temperature	-40 - +70°C	-40 - +70°C
Gain	17 dBi	16 dBi
Horizontal beamwidth	90°	120°
Vertical beamwidth	6°	6°
Polarization	Vertical	Vertical
Front-to-back	>25 dB	>25 dB
Cross polarization	>15 dB	>15 dB
Mechanical downtilt	15°	15°
Weight	2 lbs (1.3 kg)	2 lbs (1.3 kg)
Dimensions (L x W x H)	24.6" x 2.7" x 1.7" (625 x 69 x 43 mm)	24.6" x 2.7" x 1.7" (625 x 69 x 43 mm)



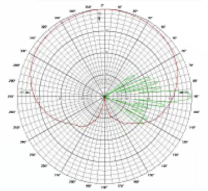
**S4901790PNF  
4900MHz**



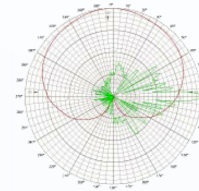
**S49016120PNF  
4900MHz**



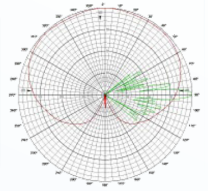
**S4901790PNF  
5470MHz**



**S49016120PNF  
5470MHz**



**S4901790PNF  
5850MHz**



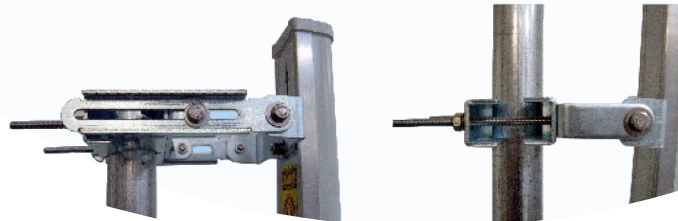
**S49016120PNF  
5850MHz**

#### WIND LOADING

MODEL	SQ. IN	100 MPH	125 MPH
S4901xx	66.4	16.6 lb	24.9 lb

#### SYSTEM ORDERING

- S4901790PNF 4900-5850MHz 90deg 17dBi VPOL sector antenna  
 S49016120PN 4900-5850MHz 120deg 16dBi VPOL sector antenna  
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