



global solutions :
local support™

Vertically Polarized Sector Antennas 4900 to 5850 MHz Operation

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 deg of downtilt.

Features and Benefits:

- High Gain 16 & 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

Applications

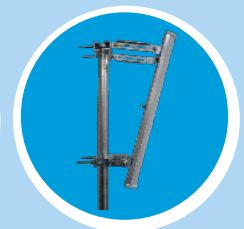
- 5.8GHz U-NII band applications
- Point to multi-point systems
- Base station antennas
- 802.11a applications
- Public safety

For sales information:

Telephone 801-572-3024

E-Mail sales@pacwireless.com

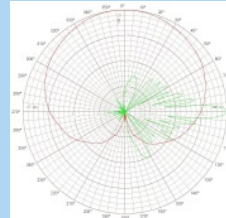
or visit: www.pacwireless.com



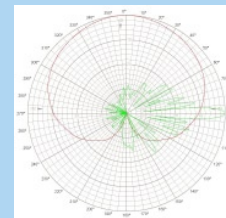
Specifications

Parameter	Min	Typ	Max	Units
Frequency Range	4900		5850	MHz
VSWR		1.8:1		
Impedance		50		OHM
Input Power			10	W
Pole Diameter (OD)	1.5" (38)		3.5" (89)	Inch (mm)
Operating Temperature	-40		+70	Deg C
	SA4958-90-17		SA4958-120-16	
Gain	17 dBi		16 dBi	
Horizontal Beam Width	90 deg		120 deg	
Vertical Beam Width	6 deg		6 deg	
Polarization	Vertical		Vertical	
Front to Back	>25 dB		>25 dB	
Cross Polarization	>15 dB		>15 dB	
Mechanical Downtilt	15 deg		15 deg	
Weight	2 lb (1.3 kg)		2 lb (1.3 kg)	
Dimensions (LxWxH)	24.6" x 2.7" x 1.7" (625 x 69 x 43mm)		24.6" x 2.7" x 1.7" (625 x 69 x 43mm)	

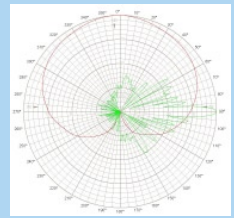
Antenna Patterns



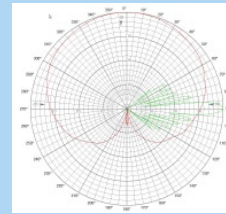
SA4958-90-17
4900MHz



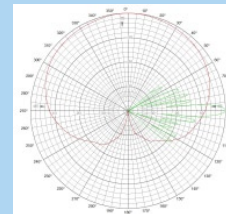
SA4958-90-17
5470MHz



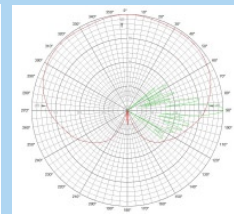
SA4958-90-17
5850MHz



SA4958-120-16
4900MHz



SA4958-120-16
5470MHz



SA4958-120-16
5850MHz

Wind Loading (Lbs.)

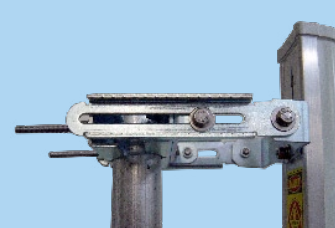
Model	Sq. In	100MPH	125MPH
SA4958	66.4	16.6	24.9

System Ordering:

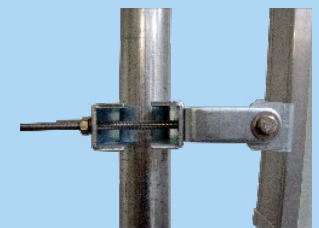
SA4958-90-17	4900-5850MHz 90deg 17dBi VPOL sector antenna
SA4958-120-16	4900-5850MHz 120deg 16dBi VPOL sector antenna

Notes:

- All shipments F.O.B. Schaumburg, IL 60173
- All antennas carry a 2 Year Warranty



Top Bracket



Bottom Bracket

Any information furnished by Laird Technologies and its agents is believed to be accurate and reliable. Responsibility for the use and application of Laird Technologies materials rests with the end user since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies makes no warranties as to the fitness, merchantability, or suitability of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies domestic terms and conditions of sale in effect from time to time, a copy of which will be furnished upon request.

Specifications subject to change without notice.

