

Horizontally Polarized Sector Antennas

5400 to 5850 MHz Operation

Features

- Horizontally Polarized
- 90 deg 17dBi and 120 deg 16dBi models
- Type N Female Integrated Connector
- Extremely Rugged for long service life in extreme environments
- Completely Weatherproof

Applications

- 5.8GHz U-NII Band Applications
- Point to Multi-point Systems
- Base Station Antennas
- 802.11a Applications



HPOL Sector

Description

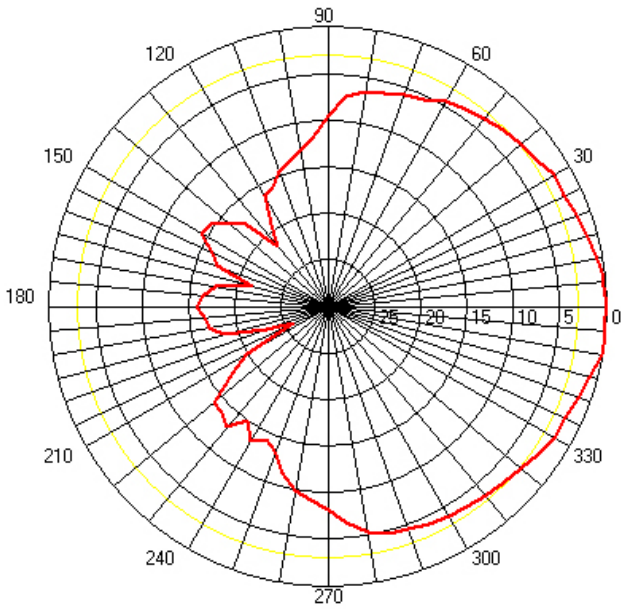
The Horizontally Polarized Sector antenna systems offered by Pacific Wireless are constructed of UV stable ABS plastic radomes and heavy galvanized brackets for long service life in the most demanding conditions. The Horizontal Polarization allows for reduced interference potential in systems which are installed in areas with high levels of vertically polarized RF noise or where the system manager wants to avoid potential future problems with interference. The super heavy duty bracket system is easy to install and adjust for up to 30 deg of downtilt.

Specifications

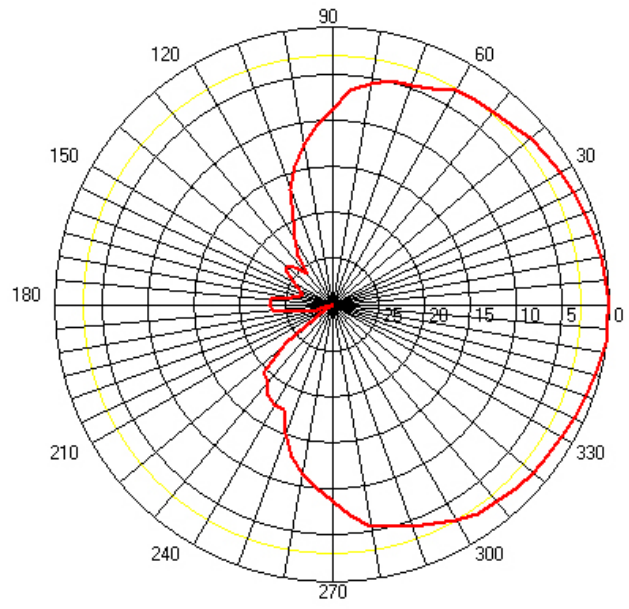
Parameter	Model	Min	Typ	Max	Units
<i>Frequency Range</i>	SAH57	5400		5750	MHz
	SAH58	5725		5850	MHz
<i>Input Return Loss (S₁₁)</i>			-14		dB
<i>VSWR</i>			1.5:1		
<i>Impedance</i>			50		OHM
<i>Input Power</i>				100	W
<i>Pole Diameter (OD)</i>		1" (25)		2.5" (64)	Inch (mm)
<i>Operating Temperature</i>		-40		+70	Deg C

	Model	SAH5x-90-xx	SAH5x-120-xx
<i>Gain</i>	SAH57	17 dBi	16dBi
	SAH58	17 dBi	16dBi
<i>Horizontal Beam Width</i>		90 deg	120 deg
<i>Vertical Beam Width</i>		8 deg	
<i>Polarization</i>		Horizontal	
<i>Front to Back</i>		20 dB	
<i>Mechanical Downtilt</i>		30 deg	
<i>Weight</i>		10 Lb (4.5kg)	
<i>Dimensions (LxWxH)</i>		31" x 6.5" x 2.5" (790 x 165 x 51mm)	

Antenna Patterns at 5.750GHz



SAH5x-90-xx
E-Plane



SAH5x-120-xx
E-Plane

Wind Loading			
Model	Sq. In	100MPH	125MPH
SAH5x	182	45.5 lb	71.1 lb



Top Bracket

Notes:

- All shipments F.O.B. Pacific Wireless Bluffdale, UT 84065
- All antennas carry a 2 Year Warranty

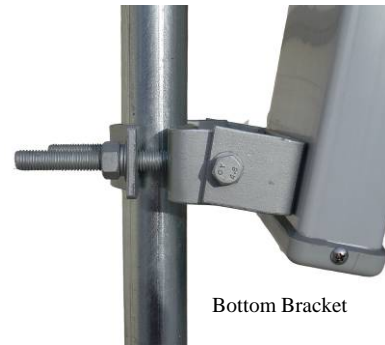
System Ordering:

SAH5 - -

Frequency
7 = 5400-5750MHz
8 = 5725-5850MHz

Horizontal Beamwidth
90 = 90deg
120 = 120deg

Antenna Gain
17 = 17dBi
16 = 16dBi



Bottom Bracket

For further information contact:



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