



### 4900-4990 MHz VERTICALLY POLARIZED SECTOR ANTENNA

The 90° vertically polarized sector antenna systems offered by Laird are designed specifically for public safety applications in the 4.9 GHz licensed band. The utilization of high gain sector antennas can provide better and more controlled wireless coverage than the traditional omnidirectional antenna. Overall coverage distance can be improved because of the more directional signal from these antennas as well as the higher gains available. The UV stable fiberglass radome construction gives long service life under the most demanding conditions. The sectors come with a stainless steel scissor bracket mounting system for ease of installation and alignment.

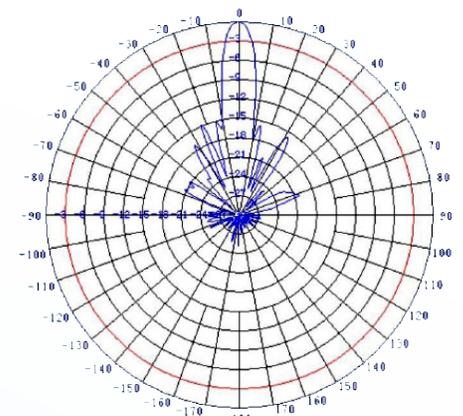
#### FEATURES

- Vertically polarized
- High gain in compact package: 16 dBi gain, 90° beamwidth
- Type N female integrated connector
- Extremely rugged for long service life in extreme environments
- Weatherproof

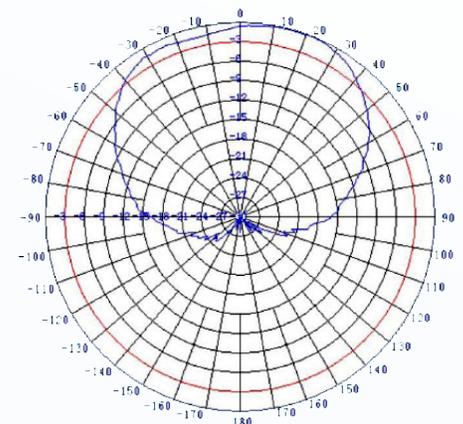
#### MARKETS

- Public safety base stations
- Point-to-multi-point systems
- Public safety broadband wireless
- Federal and local government

PARAMETER	SPECIFICATIONS
Frequency range	4900 - 4990 MHz
VSWR	1.5:1
Impedance	50 ohm
Input power	50 W
Pole diameter (OD)	1 - 2.4 in (25 - 60 mm)
Operating temperature	-40 to +70°C
Gain	16 dBi
Horizontal beamwidth	90°
Vertical beamwidth	9°
Mechanical downtilt	10°
Weight	5.7 lbs (2.6 kg)
Dimensions (L x W x H)	20 x 6 x 2.4 in (500 x 155 x 60 mm)



E Plane 4940 MHz



H Plane 4940 MHz

#### WIND LOADING

MODEL	SQ. IN	100 MPH	125 MPH	100 MPH 1/2 IN RADIAL ICE
SA49-90-16	120	30 lb	47 lb	32 lb

#### SYSTEM ORDERING

SA49-90-16 16 dBi 90° 4.9 GHz VPOL sector antenna

ANT-DS-SA49 1114

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