



2400-2485 MHz VERTICALLY POLARIZED SECTOR ANTENNAS

The vertically polarized sector antenna systems offered by Laird are constructed of UV stable fiberglass radomes for extremely long service life in the most demanding conditions. The antennas are constructed using corrosion resistant metal elements and a unique air dielectric system which are more stable than PCB based antenna systems because they don't absorb moisture, which can degrade the performance of PCB based antenna systems. The 14 dB sectors come with a stainless steel scissor bracket system for ease of installation and alignment. The 9 dBi sector comes with a galvanized steel bracket with stainless steel hardware.

FEATURES

- Vertically polarized
- 90°, 120° and 180° models with gains from 9 dBi to 14 dBi
- Type N female integrated connector
- Extremely rugged for long service life in extreme environments
- Weatherproof

MARKETS

- 2.4 GHz ISM band applications
- 802.11b and 802.11g wireless systems
- WiFi base station antennas
- Point-to-multi-point systems
- Wireless internet
- WiMAX

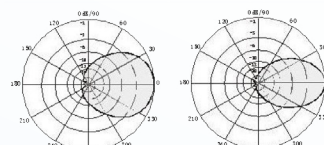
| PARAMETER | SA24-90-9 | SA24-120-9 | SA24-180-14 |
|-------------------------|---|---|---|
| Frequency range | 2400 - 2485 MHz | 2400 - 2485 MHz | 2400 - 2485 MHz |
| Input return loss (S11) | -14 dB | -14 dB | -14 dB |
| VSWR | 1.5:1 | 1.5:1 | 1.5:1 |
| Impedance | 50 ohm | 50 ohm | 50 ohm |
| Input power | 100 W | 100 W | 100 W |
| Pole diameter (OD) | 1 - 2 in (25-50 mm) | 1 - 2 in (25-50 mm) | 1 - 2 in (25-50 mm) |
| Operating temperature | -40 to +70°C | -40 to +70°C | -40 to +70°C |
| Gain | 9.5 dBi | 9 dBi | 14 dBi |
| Horizontal beamwidth | 90° | 120° | 180° |
| Vertical beamwidth | 30° | 30° | 10° |
| Front-to-back | 25 dB | 25 dB | 25 dB |
| Down tilt (mechanical) | 45° | 45° | 10° |
| Weight (with bracket) | 25 oz (0.7 kg) | 25 oz (0.7 kg) | 11 lbs (5 kg) |
| Dimensions (L x W x H) | 10 x 6.5 x 2.5 in (254 x 165 x 63.5 mm) | 10 x 6.5 x 2.5 in (254 x 165 x 63.5 mm) | 40 x 10.25 x 7 in (1020 x 260 x 180 mm) |

WIND LOADING

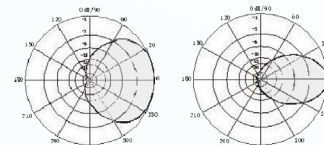
| MODEL | SQ. IN | 100 MPH | 125 MPH | 100 MPH 1/2 IN RADIAL ICE |
|------------|--------|---------|---------|------------------------------|
| SA24-xx-9 | 65 | 16.3 lb | 25.4 lb | 17 lb |
| SA24-180-9 | 400 | 100 lb | 156 lb | 102 lb |

SYSTEM ORDERING

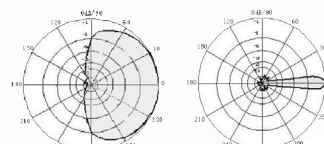
| | |
|-------------|---|
| SA24-90-9 | 9 dBi 90° 2.4 GHz VPOL sector antenna |
| SA24-120-9 | 9 dBi 120° 2.4 GHz VPOL sector antenna |
| SA24-180-14 | 14 dBi 180° 2.4 GHz VPOL sector antenna |



SA24-90-9



SA24-120-9



SA24-180-14

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