



# MultiSector<sup>™</sup> Sectorized Omni Antennas 2400 to 2485 MHz Operation

The MultiSector<sup>™</sup> vertically polarized sectorized omnidirectional antenna systems offered by Laird Technologies are a sector antenna array packaged in a unique integrated radome with single point mounting system. Multiple sector antennas are packaged in a single low profile antenna housing which minimizes installation time and tower leasing costs. Through beamshape engineering, the sectors have excellent isolation and crosstalk characteristics which allow them to coexist in a small physical space. In order to provide for more consitent coverage close to the tower as well as at a distance from the tower, the antennas feature electrical downtilt as well as beam shaping to create a null fill pattern between the antenna and the ground for more consistent coverage. The antennas are constructed of UV stable PVC radomes for long service life in the most demanding conditions. The antennas feature corrosion resistant metal elements and a unique air dielectric system which is more stable than PCB based antenna systems because they don't absorb moisture, which can degrade the performance. The antennas are designed to mount to the top of a 1" to 1.73" diameter pole but can also be mounted to the side of a larger pole using pipe clamps or U-Bolt clamps.

### Features and Benefits:

- Vertically polarized
- Qty 3 120 deg sectors in a single efficient package
- High gain 15dBi
- Shaped beam pattern with null fill and electrical downtilt for better overall wireless coverage
- Qty 3 type N female integrated connectors
- Extremely rugged for long service life in extreme environments

### Weatherproof

## Applications

- 2.4 GHz ISM band applications
- 802.11b and 802.11g wireless systems
- Point to multi-point systems
- Base station antennas
- WiFi access points
- WiMax base stations

For sales information:

Telephone 801-572-3024 E-Mail sales@pacwireless.com

# **SO24**

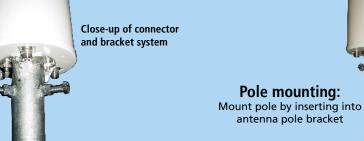
# Specifications

Laird

**TECHNOLOGIES**®

Parameter	Min	Тур	Max	Units	
Frequency Range	2400		2485	MHz	
VSWR		1.5:1			
Impedance		50		ОНМ	
Input Power			100	W	
Pole Diameter (OD)	1″ (25)		1.73" (44)	Inch (mm)	
Operating Temperature	-40		+70	Deg C	
2400-2485MHz	SO24-120x3-15				
Gain (per sector)	15 dBi				
Horizontal Beamwidth (per sector)	120 deg				
Horizontal Beamwidth (per antenna)	360 deg				
Vertical Beam Width	6.5 deg				
Front to Back	>15 dB				
Isolation (sector to sector)	>35dB				
IM3	<107dBm				
Electrical Downtilt	2 deg				
Weight	14lb (6.5kg)				
Dimensions ( L x Diameter)	40″ x 6.5″ (1020mm x 164mm)				

Wind Loading					
Model	Sq. In	100MPH	125MPH	100MPH 1/2" radial ice	
SO24-120x3-15	171.6	43	67.2	49.5	



## System Ordering:

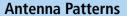
SO24-120x3-15 2.4GHz 15dBi sectorized omnidirectional antenna

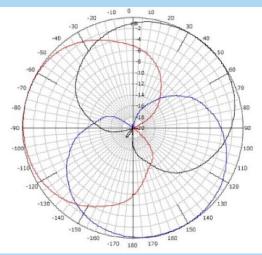
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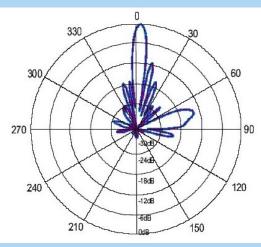
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#### SO24-120x3-15 Azimuth (Horizontal) Patterns



## SO24-120x3-15 E Plane (Vertical) Pattern

All antennas carry a 2 Year Warranty

#### Notes: • All shipments F.O.B. Schaumburg, IL 60173