

90 Degree, 14 dBi Sector Antenna, Dual-Polarized, 4.4 to 5GHz

SEC-4.7D-90-14



The RadioWaves SEC-4.7D-90-14 high performance sector antenna is specifically designed for Military and Public Safety and has 13 to 15 dBi of gain. Measuring 12" x 5", the SEC-4.7D-90-14 antenna is extremely compact and fortified to stand up to all environments.

The SEC-4.7D-90-14 has 90° Horizontal Beamwidth and 15° Vertical Beamwidth patterns with Vertical + Horizontal polarization and features 2 x Type N Female connectors. The 2-port SEC-4.7D-90-14 is rugged and weatherproof and features a heavy-duty UV-resistant plastic radome for all-weather operation.

The SEC-4.7D-90-14 operates from 4400 to 5000 MHz which is ideal for Point-to-Multipoint coverage in Military and Public Safety applications. The 2 x Type N Female connectorized SEC-4.7D-90-14 includes mounting bracket and hardware for ease of installation.

Features

- Dual polarity feed system in single enclosure
- Includes tilt and swivel mast mounting
- Two integral N-Female connectors
- UV-resistant radome for all-weather operation
- MIMO Multiple-Input and Multiple-Output

Applications

- 4.4 GHz Military bands
- 4.9 GHz Public Safety bands
- 5G applications
- Wireless Internet Services

SPECIFICATIONS

General

Antenna Type	Sector Antenna
Size, nominal	1 ft 0.3 m

Polarization	Dual
Standard RF Connector Type	N-Female

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Electrical

Operating Frequency Band	4.4 - 5 GHz
Half Power Beamwidth, Horizontal	90 degrees
Half Power Beamwidth, Vertical	15 degrees
Cross-Polarization Discrimination	25 dB
Front to Back Ratio (F/B)	20 dB
Gain, Low Frequency	13 dBi

Gain, Mid Frequency	14 dBi
Gain, High Frequency	15 dBi
VSWR	2.0:1
Return Loss	-10 dB
Port to Port Isolation, Max (dB)	25 dB

Mechanical

Fine Elevation Adjustment	+/- 5 degrees
Mounting Pipe Diameter, Min	2 inch 5.1 cm
Mounting Pipe Diameter, Max	4.5 inch 11.4 cm
Net Weight	5 lbs 2.3 kg
Wind Velocity Operational	90 mph 145 km/h

Wind Velocity Survival Rating	125 mph 201 km/h
Mechanical Configuration	SEC-4-7D
Axial Force (FA)	85 lbs 378 N
Side Force (FS)	32 lbs 142 N
Operating Temperature Range	-40 to +60 C

Regulatory Compliance

Industry Canada Compliance	undeclared
RoHS-compliant	Yes

Shipping Information

Package Type	Cardboard
Gross Weight	4 lbs 1.6 kg

Contact RadioWaves for alternate RF interface options.

Dimensions, L x W x H	6 x 14 x 9in 30 x 68 x 20 cm
Shipping Volume	1.5 cu ft 0.04 cu m



TECHNICAL DRAWINGS

