

# OMND-4.5/4.5-9

## 9 DBI OMNIDIRECTIONAL ANTENNA, DUAL H & V-POLARIZED, 4.4-4.6GHZ

The OMN Omni Series by RadioWaves offers a full line of high performance omni-directional antennas developed with a low profile radome. RadioWaves field-proven pre-assembled antennas and robust easy to install heavy duty mounting system ensure “set and forget” installation with minimal post-installation maintenance. If it’s rugged, it must be RadioWaves!

### FEATURES AND BENEFITS

- High Performance Omni-Directional Antennas – Excellent performance for a wide range of applications
- Fully Preassembled at the Factory – Simplifies installation on site and guarantees “factory-tested” quality
- Warranty – Industry leading 7-year warranty



### SPECIFICATIONS

#### General

Antenna Type	Omnidirectional Antenna
Size, nominal	3 ft   0.9 m
Polarization	Dual H & V

Standard RF Connector Type	N-Female
Standard RF Connector Suffix	Not Applicable: No model number suffix required

#### Electrical

Operating Frequency Band	4.4 - 4.6 GHz
Half Power Beamwidth, Horizontal	360 degrees
Half Power Beamwidth, Vertical	9 degrees
Cross-Polarization Discrimination	20 dB
Front to Back Ratio (F/B)	na

Gain, Low Frequency	8.5 dBi
Gain, Mid Frequency	9 dBi
Gain, High Frequency	8.5 dBi
VSWR	1.7:1
Return Loss	-12 dB

## Mechanical

Fine Azimuth Adjustment	Supplied with coarse az adjust only
Fine Elevation Adjustment	No elevation adjustment
Mounting Pipe Diameter, Min	1 inch   2.5 cm
Mounting Pipe Diameter, Max	2 inch   5.1 cm
Net Weight	6 lbs   2.7 kg
Wind Velocity Operational	90 mph   145 km/h
Wind Velocity Survival Rating	125 mph   201 km/h

Mechanical Configuration	OMND
Axial Force (FA)	23 lbs   102 N
Side Force (FS)	23 lbs   102 N
Twisting Moment (MT)	0 ft-lbs   0 Nm
Operating Temperature Range	-40 to +60 C
Max Pressure, PSIG, (if waveguide interface)	na

## Regulatory Compliance

FCC	undeclared
Industry Canada Compliance	undeclared

ETSI	undeclared
RoHS-compliant	Yes

## Shipping Information

Package Type	Cardboard
Gross Weight	8 lbs   3.6 kg

Dimensions, L x W x H	49 x 8 x 8in   124.5 x 20.3 x 20.3 cm
Shipping Volume	1.8 cu ft   0.05 cu m

Four N connectors: Two for H pol and two for V pol  
Contact RadioWaves Sales for alternate RF interface options.