

## Linear Omnidirectional Antenna 11 dBi

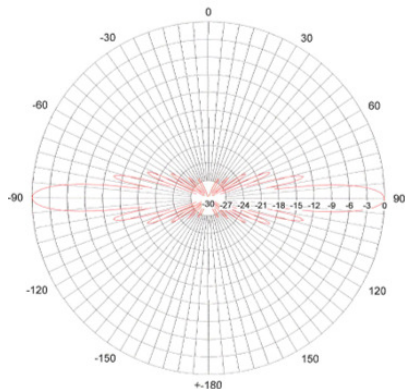
AV Antenna, which is linear polarization omnidirectional antenna, is suitable for mobile links.

High gain omni antennas comprise co-phased arrays of four or eight vertically polarized radiating elements to provide omnidirectional azimuth coverage with a high gain, narrow elevation beam.

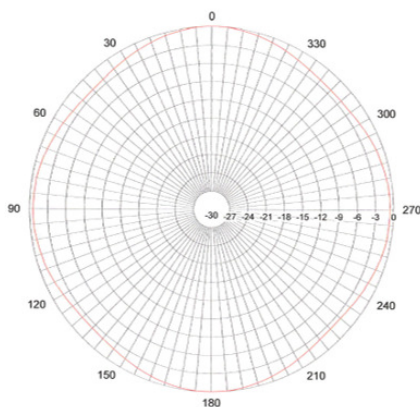
The planar printed circuit design features a unique system for maintaining consistent amplitude and phase at each radiating element tier, thereby achieving consistent high performance across the operating band. Planar compensating elements parallel to the main circuit board ensure a  $\pm 1$  dB azimuth ripple in the omni pattern. The antennas are housed in robust fiberglass tubes, and feature an enhanced dual barrier water-seal at the top, comprising an aluminum alloy overcap RTV'ed over a delrin top cap that is glued into the tube. There is a breathe hole in the base. A stainless steel bracket and U bolts are provided for mounting.



### Radiation Pattern



Vertical  
Radiation pattern



Horizontal  
Radiation pattern

## Characteristics

### AV-11-2021V

**Frequency band**  
1980-2110 MHz

**Gain**  
11 dBi

**Polarization**  
Linear, Vertical

**Return Loss**  
14 dB typical

**VSWR**  
< 1.5

**Elevation B/W**  
9 degrees

**Azimuth B/W**  
360 degrees

**Connector**  
N female

**Temperature range**  
-30 to +70°C

**Lenght**  
1065 mm

**Diameter**  
67 mm

**Max. Power**  
20 W

### AV-11-2024V

**Frequency band**  
2000-2400 MHz

**Gain**  
11 dBi

**Polarization**  
Linear, Vertical

**Return Loss**  
14 dB typical

**VSWR**  
< 1.5

**Elevation B/W**  
9 degrees

**Azimuth B/W**  
360 degrees

**Connector**  
N female

**Temperature range**  
-30 to +70°C

**Lenght**  
1003 mm

**Diameter**  
67 mm

**Max. Power**  
20 W

### AVS11-2225V

**Frequency band**  
2200-2500 MHz

**Gain**  
11 dBi

**Polarization**  
Linear, Vertical

**Return Loss**  
14 dB typical

**VSWR**  
< 1.5

**Elevation B/W**  
9 degrees

**Azimuth B/W**  
360 degrees

**Connector**  
N female

**Temperature range**  
-30 to +70°C

**Lenght**  
916 mm

**Diameter**  
67 mm

**Max. Power**  
20 W

### AV-11-2327V

**Frequency band**  
2300-2700 MHz

**Gain**  
11 dBi

**Polarization**  
Linear, Vertical

**Return Loss**  
14 dB typical

**VSWR**  
< 1.5

**Elevation B/W**  
9 degrees

**Azimuth B/W**  
360 degrees

**Connector**  
N female

**Temperature range**  
-30 to +70°C

**Lenght**  
884 mm

**Diameter**  
67 mm

**Max. Power**  
20 W

### AV-11-3337V

**Frequency band**  
3300-3700 MHz

**Gain**  
11 dBi

**Polarization**  
Linear, Vertical

**Return Loss**  
14 dB typical

**VSWR**  
< 1.5

**Elevation B/W**  
9 degrees

**Azimuth B/W**  
360 degrees

**Connector**  
N female

**Temperature range**  
-30 to +70°C

**Lenght**  
645 mm

**Diameter**  
54 mm

**Max. Power**  
20 W

### AV-11-4450V

**Frequency band**  
4400-5000 MHz

**Gain**  
11 dBi

**Polarization**  
Linear, Vertical

**Return Loss**  
14 dB typical

**VSWR**  
< 1.5

**Elevation B/W**  
9 degrees

**Azimuth B/W**  
360 degrees

**Connector**  
N female

**Temperature range**  
-30 to +70°C

**Lenght**  
520 mm

**Diameter**  
27 mm

**Max. Power**  
20 W

### AV-11-4851V

**Frequency band**  
4800-5100 MHz

**Gain**  
11 dBi

**Polarization**  
Linear, Vertical

**Return Loss**  
14 dB typical

**VSWR**  
< 1.5

**Elevation B/W**  
9 degrees

**Azimuth B/W**  
360 degrees

**Connector**  
N female

**Temperature range**  
-30 to +70°C

**Lenght**  
520 mm

**Diameter**  
27 mm

**Max. Power**  
20 W

### AV-11-5154V

**Frequency band**  
5100-5400 MHz

**Gain**  
11 dBi

**Polarization**  
Linear, Vertical

**Return Loss**  
14 dB typical

**VSWR**  
< 1.5

**Elevation B/W**  
9 degrees

**Azimuth B/W**  
360 degrees

**Connector**  
N female

**Temperature range**  
-30 to +70°C

**Lenght**  
485mm

**Diameter**  
27 mm

**Max. Power**  
20 W