

# High Gain C-Band Omni

5.5 – 6.0 GHz

Product Code: OMNI-A0138

VERSION: 1.7



## SPECIFICATIONS:

<b>Product code:</b>	
OMNI-A0138	TNC (M) connector
OMNI-A0138-01	N-type (M) connector
<b>Electrical:</b>	
Frequency range	5500 – 6000 MHz
VSWR	< 2:1
Nominal input impedance	50 $\Omega$
Feed power handling	10 W
Gain (typical)	4 – 5 dBi
Polarisation	Vertical
Azimuth ripple	$\pm 1$ dB
<b>Mechanical:</b>	
Height	180 mm
Diameter	22 mm
Total mass	100 g
Colour	Black
Mounting method	Connector
Groundplane requirement	Groundplane independent
<b>Environmental: designed to meet the following specifications</b>	
Wind survival	100 km/h
Temperature (operational)	-31 $^{\circ}$ C to +51 $^{\circ}$ C
Temperature (storage)	-31 $^{\circ}$ C to +71 $^{\circ}$ C
Vibration	MIL-STD-167-1 type 1
Shock	20 G / 10 mS X,Y,Z axes
Water and dust resistance	MIL-STD-820F (506.4)

## PRODUCT FEATURES:

- Collinear design gives better gain than dipole and monopole antennas
- Low VSWR across the band
- Rugged and lightweight

## APPLICATIONS:

- Wi-fi and communications

## PRODUCT DESCRIPTION:

The OMNI-A0138 is a wideband, high gain omni-directional antenna for use in the 5.5 to 6 GHz frequency range at high-power levels up to 10 W.

The OMNI-A0138 utilises a 3-stack collinear dipole array radiator with integrated balun, making it groundplane independent and suitable for use on any mounting platform, such as manpacks and mobile electronic devices, and providing higher gain than many competing antennas across the frequency range. The antenna is designed and intended for use in extreme operational conditions.

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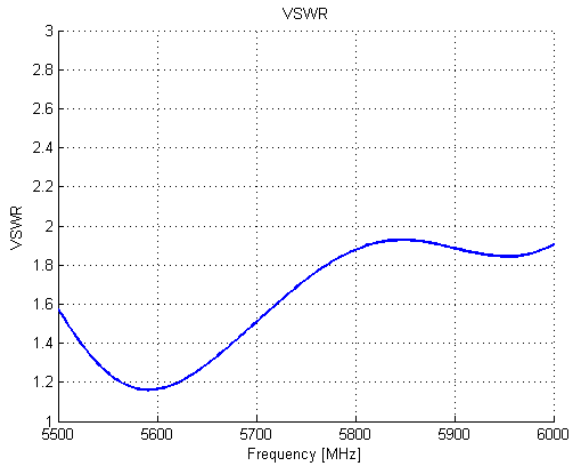
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## VSWR AND GAIN GRAPHS:

### VSWR:



### GAIN:

