

# High Gain X-Band Omni

8100 – 8600 MHz

Product Code: OMNI-A0150

VERSION: 1.5

## SPECIFICATIONS:



<b>Product code:</b>	
OMNI-A0150-01	N-type (M) connector
OMNI-A0150-02	TNC (M) connector
OMNI-A0150-03	SMA (M) connector
OMNI-A0150-04	N-type (M) connector with spring base
<b>Electrical:</b>	
Frequency range	8100 – 8600 MHz
VSWR	< 2:1 typical, maximum 2.5:1
Nominal input impedance	50 Ω
Feed power handling	5 W
Gain (typical)	4 – 5 dBi
Polarisation	Vertical
Azimuth ripple	±1 dB
<b>Mechanical:</b>	
Height:	
OMNI-A0150-01/02/03	120 mm
OMNI-A0150-04	200 mm
Diameter	22 mm
Total mass:	
OMNI-A0150-01	120 g
OMNI-A0150-02/03	80 g
OMNI-A0150-04	250 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 °C to +51 °C
Temperature (storage)	-31 °C to +71 °C
Vibration	MIL-STD-810E method 516.4, category 8
Shock	20 G / 10 mS X,Y,Z axes
Water and dust resistance	IP 65

## PRODUCT DESCRIPTION:

The OMNI-A0150 is a wideband, high gain omni-directional antenna for use in the 8100 to 8600 MHz frequency range at high-power levels up to 5 W.

The OMNI-A0150 utilises a 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 OMNI-A0150-04 has a spring loaded base, for shock absorption and flexibility. The antenna is designed and intended for use in extreme operational conditions.