

High Gain L-Band Omni

1.15 – 1.4 GHz

Product Code: OMNI-A0109

VERSION: 3.2



OMNI-A0109-02



OMNI-A0109-03

PRODUCT FEATURES:

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

APPLICATIONS:

- Communications
- Monitoring

SPECIFICATIONS:

Product code:	
OMNI-A0109-01	N-type (M) connector
OMNI-A0109-02	TNC (M) connector
OMNI-A0109-03	TNC (M) connector, spring loaded
OMNI-A0109-04	N-type (M) connector, spring loaded
Electrical:	
Frequency range	1150 – 1400 MHz
VSWR	< 2:1
Nominal input impedance	50 Ω
Feed power handling	20 W
Gain (typical)	4 – 5 dBi
Gain (minimum)	3.5 dBi
Elevation 3 dB beamwidth	35 – 55°
Polarisation	Vertical
Azimuth ripple	±1 dB
Mechanical:	
Height	< 350 mm
Radome Diameter	22 mm
Total mass	120 g
Colour	Black
Mounting method	Connector
Groundplane requirement	Groundplane independent
Mechanical (OMNI-A0109-03/04):	
Height	< 420 mm
Diameter	< 25 mm
Total mass	200 g
Environmental: designed to meet the following specifications	
Wind survival	100 km/h
Temperature (operational)	-31 °C to +51 °C
Temperature (storage)	-31 °C to +71 °C
Vibration	MIL-STD-167-1 type 1
Shock	20 G / 10 mS X,Y,Z axes
Water and dust resistance	IP65 rain resistant

PRODUCT DESCRIPTION:

1.15 to 1.4 GHz omni-directional collinear antenna with groundplane independent radiator and wideband, high-gain performance.

The OMNI-A0109 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. The antenna is designed and intended for use in extreme operational conditions.

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ELECTRICAL PERFORMANCE CURVES:

