

High-Power Wideband Bicone

500 – 6000 MHz

Product Code: OMNI-A0149

VERSION: 1.1

SPECIFICATIONS:



Product codes:	
OMNI-A0149	500 - 6000 MHz N(f) connector
Electrical:	
Frequency range	500 - 6000 MHz
VSWR	< 2.5:1
Power handling (Continuous power, CW excitation)	200 W
Gain	See graph
Elevation 3 dB beamwidth	> 30°
Azimuth ripple	< 1dB
Nominal input impedance	50 Ω
Polarisation	Vertical
Connector	N-type female
Mechanical:	
Height	800 mm
Base diameter	135 mm
Maximum diameter	190 mm
Weight	2 kg
Mounting base	NATO flange 4 and 6 holes
Environmental:	
Wind loading	160 km/h
Temperature (operational)	- 30 °C to + 65 °C (no icing)
Shock	20 G at 10 msec
Thermal shock	- 20 °C to +70 °C: 10 cycles
Water ingress rating	IP 65 (NEMA 4X)

FEATURES:

- Wide frequency coverage (500 to 6000 MHz)
- High-power, 200 W at 100% duty cycle
- Omni-directional azimuth pattern
- Rugged and hard-wearing

APPLICATIONS:

- Improved explosive device (IED) suppression.
- Communications jamming

PRODUCT DESCRIPTION:

The OMNI-A0149 is a high-power wideband bicone-type antenna designed for jamming applications in the 500 to 6000 MHz frequency band.

The optimised radiator design allows for a consistently low VSWR across the entire frequency band whilst maintaining good gain performance. It can handle full rated power continuously at all frequencies, making it ideal for all 100% duty-cycle applications.

The sprung-mount antenna is designed for mounting to a vehicular platform and its high strength housing is impervious to shocks, vibration and solvents. The sprung base allows for the antenna to deflect when impacting objects.

The mechanical design of the antenna allows maximum height of the radiating element for maximum effective range and coverage. The radiator technology is ground-plane independent, allowing for an effective deployment on any platform.



sales@poynting.co.za
www.poynting.co.za

Poynting Antennas has a policy of continuous improvement and hence specifications may change without notice

DEFENCE AND SPECIALISED

High-Power Wideband Bicone

500 – 6000 MHz

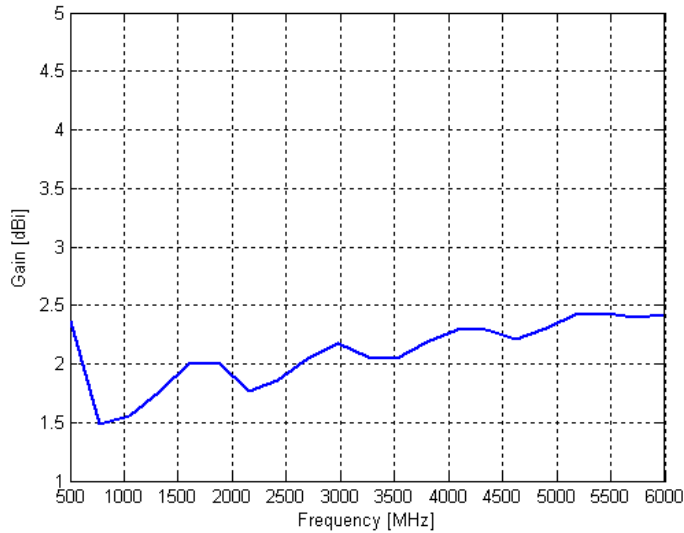
Product Code: OMNI-A0149

VERSION: 1.1

VSWR AND GAIN GRAPHS:

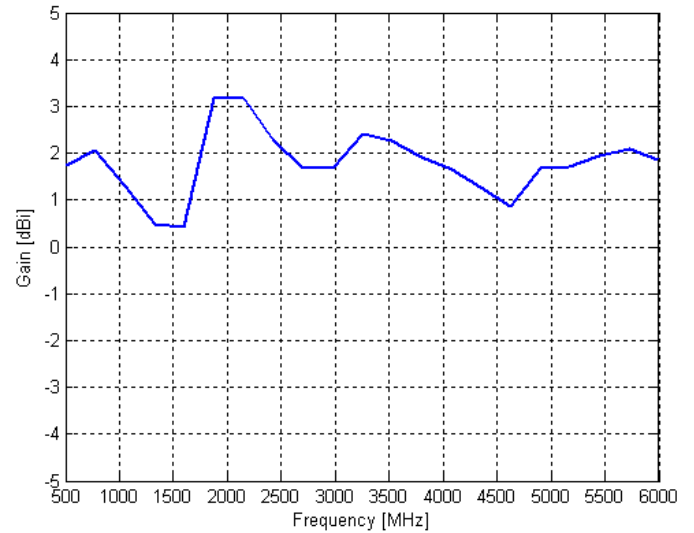
VSWR

OMNI-A0149 Antenna VSWR



Gain

OMNI-A0149 Antenna Gain



MECHANICAL DRAWINGS:

