

### **VERSION: 1.5**

# **Compact Vehicular Monitoring Antenna**

20 - 6000 MHz

Product Code: OMNI-A0244

#### **SPECIFICATIONS:**



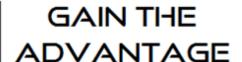
Product codes:		
OMNI-A0244	Active version including amplifier	
OMNI-A0244-02	Passive version	
Electrical:	OMNI-A0244	OMNI-A0244-02
Frequency range	20 – 6000 MHz,	
	gain drops off below 80 MHz	
Polarisation	Vertical	
VSWR	< 2.5:1 typical (active version)	
Nominal input	50 Ω	
impedance		
Internal construction	2 x bi-conical antennas with diplexer	
Connectors	1 x N-type female	
E-plane beamwidth	60° nominal	
H-plane beamwidth	360°	
Azimuth ripple	< 6 dB	
Groundplane	Groundplane independent	
requirements	·	
DC voltage supply	15 ± 1 VDC	-
Supply current	< 150 mA	-
Amplifier gain	10 dB nominal	-
Mechanical:		
Dimensions (I x d)	475 mm x 102 mm	
Base diameter	135 mm	
Total mass	< 2.5kg	
Mounting	NATO base flange, 4 and 6 holes	
Colour	Black, others on request	
Environmental: designed to meet the following specifications		
Temperature range	Storage: -41 °C to +71 °C.	
	Operation -31 °C to +70 °C	
Ingress rating	IP65 water resistant	
	(when flange is mounted)	
Shock and vibration	MIL-STD-810G 516.4:	
	Vibration category 8, shock 40 g	

#### PRODUCT OVERVIEW:

The OMNI-A0244 is a compact vehicle-mount monitoring antenna. Supplied in both active and passive versions, it allows monitoring over the full 20 to 6000 MHz band. It is mounted on an N-type connector base, with a spring for shock absorption and flexibility.

The active version of the antenna includes a nominal 10 dB amplifier to help overcome cable loss. The passive version has no amplifier, and is less expensive, and has no dynamic range limitations.

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## **GAIN AND FIELD STRENGTH SENSITIVITY GRAPHS:**



