

Wideband HP Active Monitoring Antenna

500 – 3000 MHz

VERSION: 1.2

Product Code: OMNI-A0268



PRODUCT DESCRIPTION:

OMNI-A0268 is a wideband, active omni-directional antenna designed to receive horizontally polarised signals in the 500 to 3000 MHz frequency band. It is suitable for both mobile and fixed-site applications.

Mounting is provided via standard NATO and US 6/3/4 holes mounting flange, making it compatible with numerous existing systems.

The antenna RF output is provided through an N-type connector which exits the antenna under the mounting flange for watertight and convenient vehicular installation.

In active mode, the OMNI-A0268 is equipped with highly linear and low noise amplifier, which provides excellent sensitivity and low interference. The DC power is supplied to the antenna through the RF connector using products such as the MISC-A0022.

The OMNI-A0268 is extremely robust in design with printed circuit board radiating elements housed in a fibreglass radome fitted in to aluminium mounting tube.

When the antenna is used together with OMNI-A0098-01 or OMNI-A0190, both horizontally and vertically signal can be received.

SPECIFICATIONS:

Product code:	
OMNI-A0268	Active antenna, 1000 – 3000 MHz
OMNI-A0268-02	Passive antenna with extension to 3600 MHz
Electrical:	
Frequency range	1000 – 3000 MHz 500 – 3600 MHz (reduced performance)
Gain	See graph
VSWR	< 2.5:1
Nominal impedance	50 Ω
Azimuth pattern	Omni-directional
Azimuth ripple	< 6 dB
RF power handling	Active, receive only
Polarisation	Linear, horizontal
Connector	N-type female
Power supply (active antenna)	15 V DC injected through the RF connector (see also MISC-A0022 – power supply and DC injector)
Mechanical (see interface drawing on pg. 4):	
Total length	400 mm
Total diameter	165 mm
Total mass	3 kg
Mounting	NATO flange standard 4 and 6 holes
Colour	As per request
Environmental: designed to meet the following specifications	
Temperature range	Storage: -30 °C to +70 °C Operation -30 °C to +55 °C
Weatherproofing	IP 66 rain resistant
Shock and vibration	MIL-STD-810E 516.4: vibration category 8, shock 40 g
Exposed materials	Painted aluminium and fibreglass

PRODUCT FEATURES:

- Compact and wideband
- Omni-directional reception of horizontally polarised signals
- Highly linear and low noise amplification (active version)
- Rugged and waterproof design for reliable performance in harsh environments
- NATO flange standard mounting interface
- Suitable for mobile and fixed-site (shelter) applications

APPLICATION AREAS:

- Wideband spectrum monitoring

RELATED PRODUCTS:

- OMNI-A0098-01 VP monitoring antenna, 20 to 6000 MHz
- OMNI-A0156 HP monitoring antenna, 20 to 3000 MHz
- OMNI-A0191 VP and HP monitoring antenna
- MISC-A0022 Power supply and DC injector

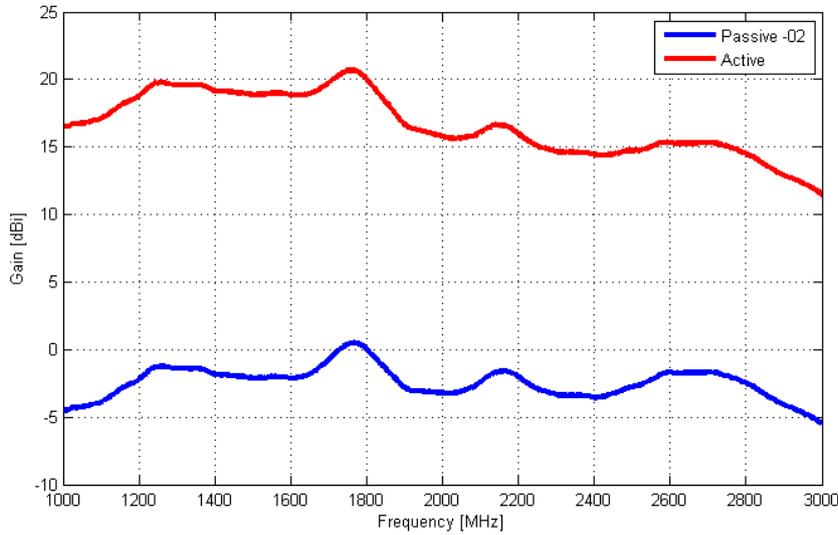
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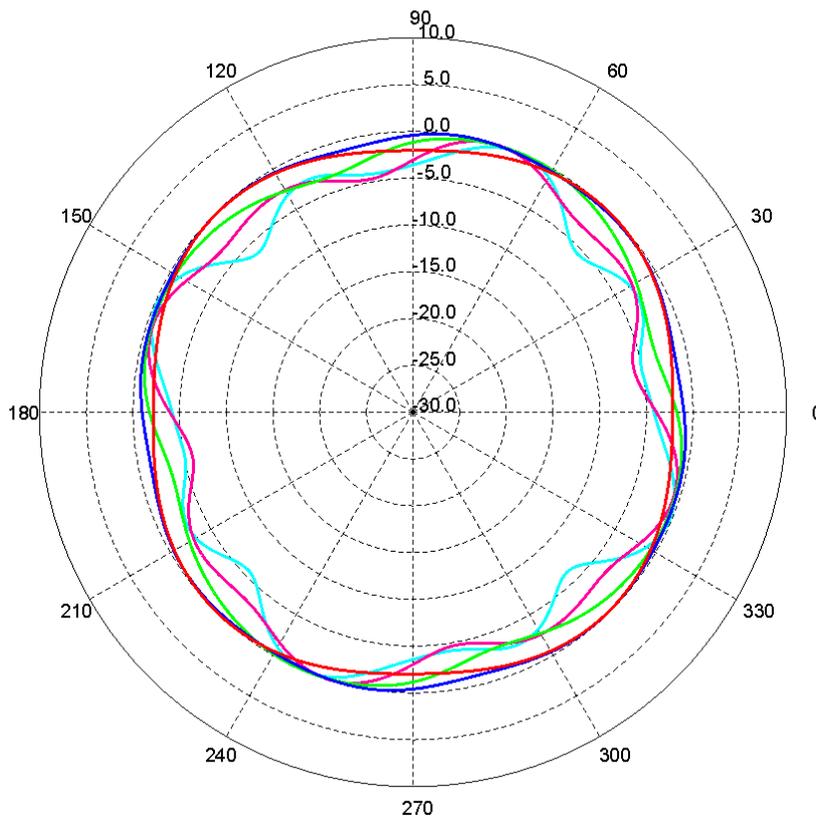
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Gain:



Normalised Azimuth (E-Plane) Pattern for Band B



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ACCESSORIES:



MISC-A0022 wideband 15 V power supply and DC injector suitable for use in conjunction with the OMNI- A0268.

Please refer to latest product brochure for more details.



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