

Vertical and Horizontal Monitoring Antenna

20 – 6000 MHz

VERSION: 1.2

Product Code: OMNI-A0191



PRODUCT DESCRIPTION:

The OMNI-A0191 is a compact integrated vertical / horizontal polarisation monitoring antenna for the band 20 MHz to 6 GHz.

Based on the proven OMNI-A0098 product in the VP section, the active antenna provides excellent sensitivity across the band. An HP antenna below this provides horizontal coverage via 2 connectors.

The antenna is supplied with a short mast which supports the unit. Access to the base connectors is through a door in the mast.

An optional lightning-protection kit provides protection against direct strikes to the radome, making this antenna suitable for mast-top mounting.

SPECIFICATIONS:

Product codes:		
OMNI-A00191	Active V+H monitoring antenna	
OMNI-A00191-02	All passive V+H monitoring antenna	
Electrical: vertical	OMNI-A0191	OMNI-A0191-02
Frequency range	20 – 6000 MHz	A: 20 – 1000 MHz B: 1 – 6 GHz
Gain	See graphs for typical values	
Connector	1 x N-f	2 x N-f
E-plane beamwidth	360 °	
H-plane beamwidth	60 ° nominal	
Azimuth ripple	< 6 dB (20 – 3000 MHz) < 10 dB (3 – 6 GHz)	
Power rating	Receive only	1 W
Input voltage on coax	15 ± 1 V DC	-
Input current	< 150 mA	-
OP1 dB (typ)	11 dBm	-
OIP2 (typ)	31 dBm	-
OIP3 (typ)	21 dBm	-
Electrical: horizontal	OMNI-A0191	OMNI-A0191-02
Frequency range	Band A: 20 – 1000 MHz Band B: 1000 – 3000 MHz	
Gain	See graphs for typical values	
Connectors	2 x N-f	
E-plane beamwidth	360 °	
H-plane beamwidth	60 ° nominal	
Azimuth ripple	< 6 dB (20 – 3000 MHz) < 10 dB (3000 – 3600 MHz)	
Power rating	Receive only	1 W
Input voltage on coax	15 ± 1 V DC	-
Input current	< 150 mA	-
OP1 dB (typ)	11 dBm	-
OIP2 (typ)	31 dBm	-
OIP3 (typ)	21 dBm	-
Mechanical:		
Dimensions	Ø 0.33 m x 1.57 m	
Total mass	16 kg (9 kg antenna + 7 kg mast)	
Mounting method	Mounted on short mast (supplied)	
Environmental:		
Wind survival	160 km/h (without ice)	
Effective wind area	0.45 m ²	
Temperature range	-30 °C to +70 °C	
Humidity	0% – 95%	
Lightning survival	Direct strike (with optional protection)	

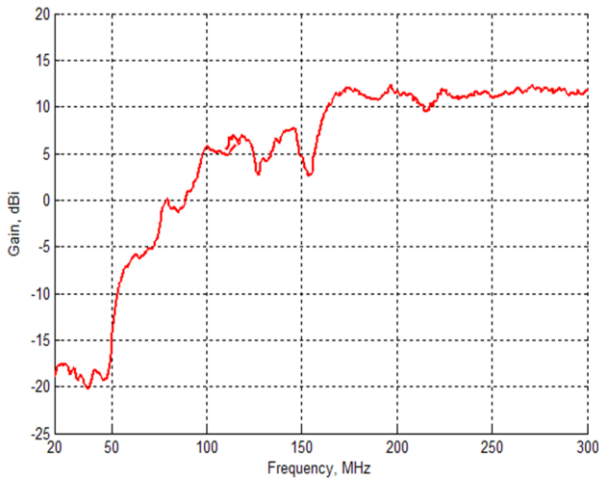
Vertical and Horizontal Monitoring Antenna

20 – 6000 MHz

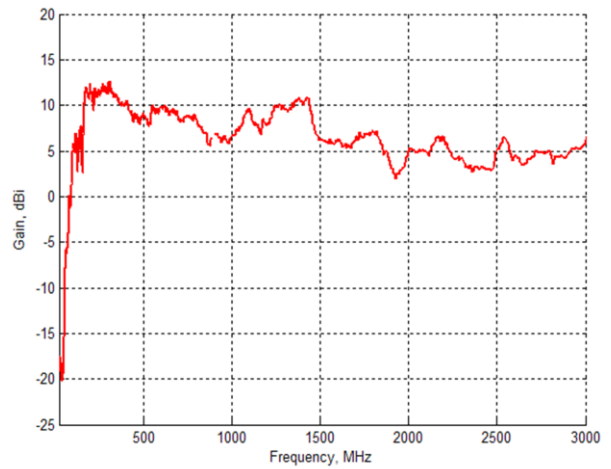
Product Code: OMNI-A0191

VERSION: 1.2

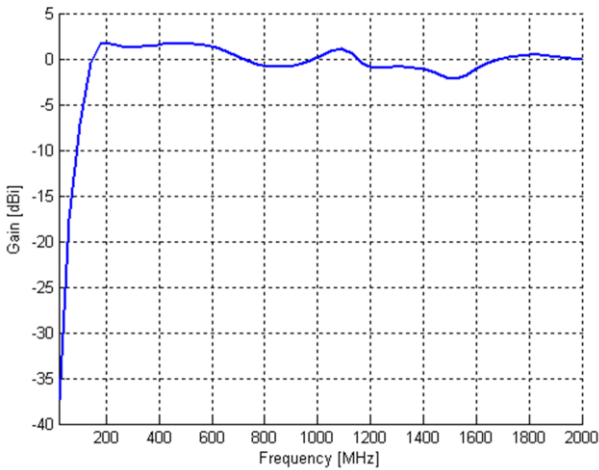
VERTICAL POL GAIN (ACTIVE)



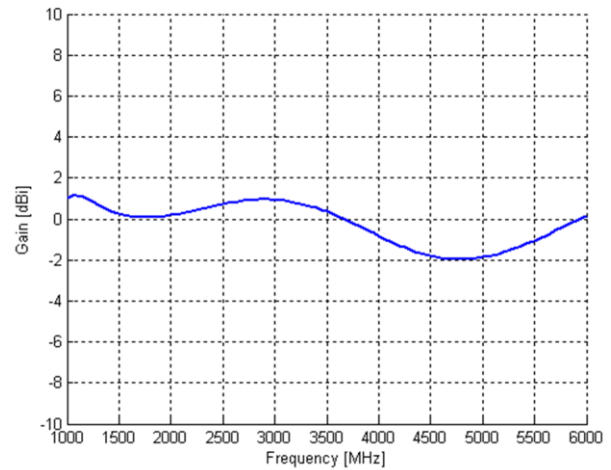
VERTICAL POL GAIN (ACTIVE)



VERTICAL POL GAIN (PASSIVE)



VERTICAL POL GAIN (PASSIVE)



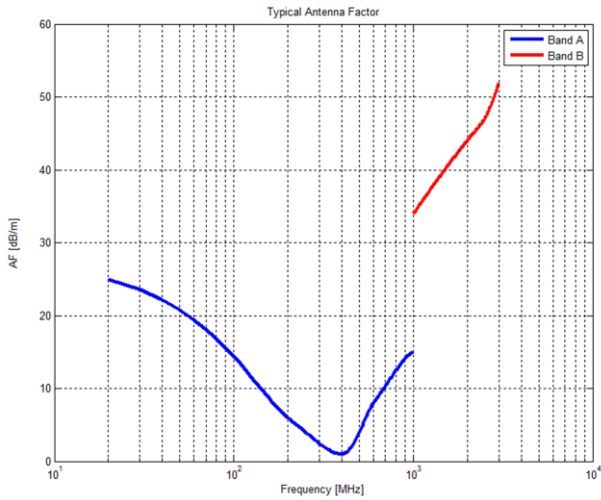
Vertical and Horizontal Monitoring Antenna

20 – 6000 MHz

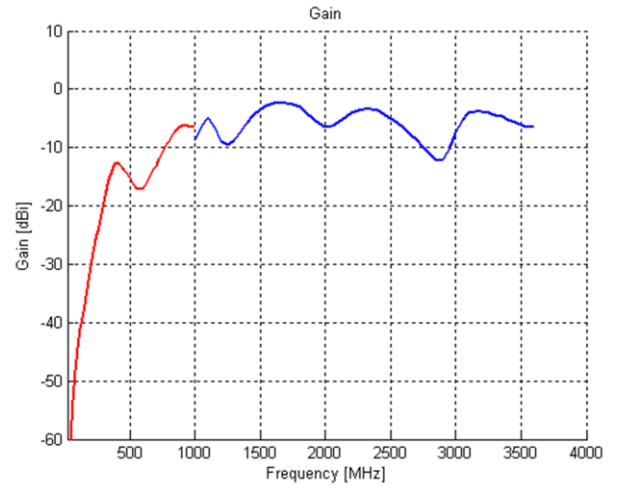
Product Code: OMNI-A0191

VERSION: 1.2

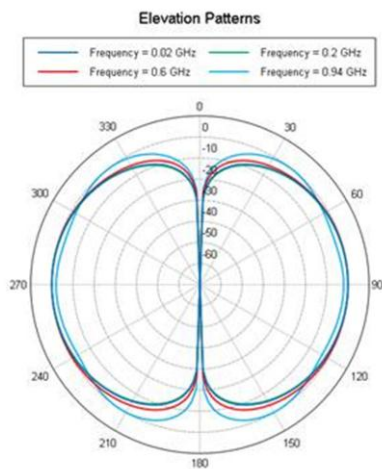
HORIZONTAL POL ANTENNA FACTOR (ACTIVE)



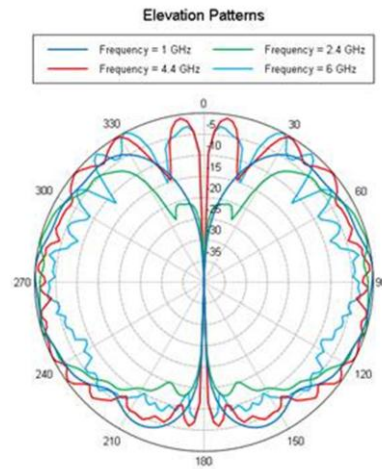
HORIZONTAL POL GAIN (PASSIVE)



VERTICAL POL PATTERNS



VERTICAL POL PATTERNS



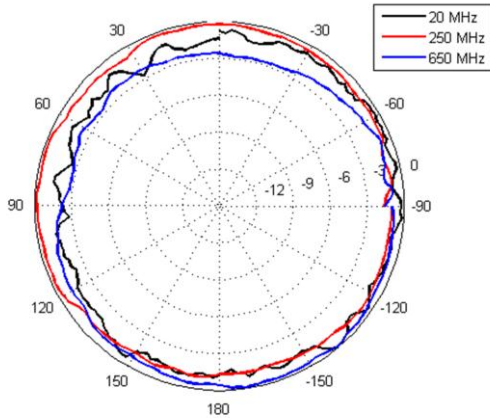
Vertical and Horizontal Monitoring Antenna

20 – 6000 MHz

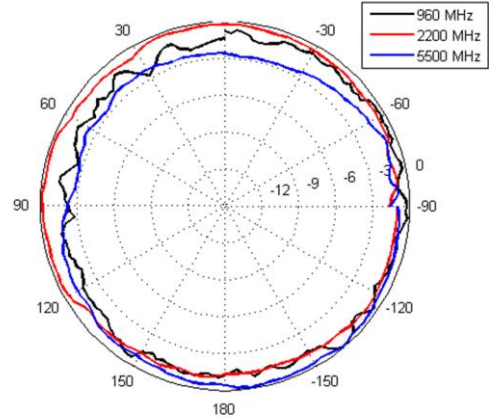
Product Code: OMNI-A0191

VERSION: 1.2

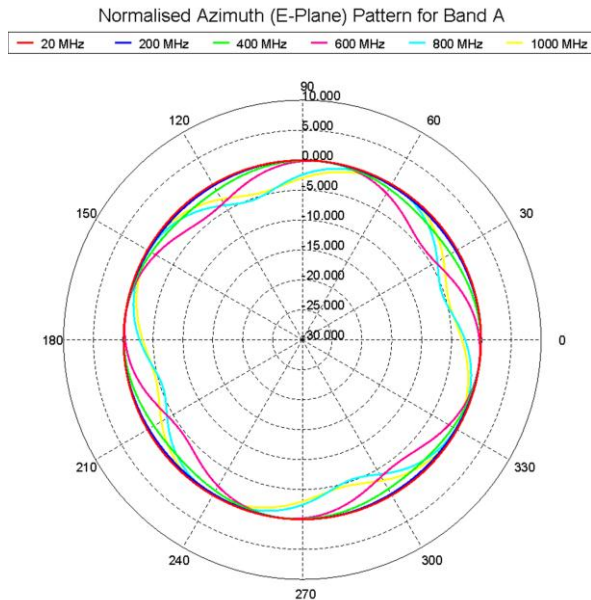
VERTICAL POL PATTERNS



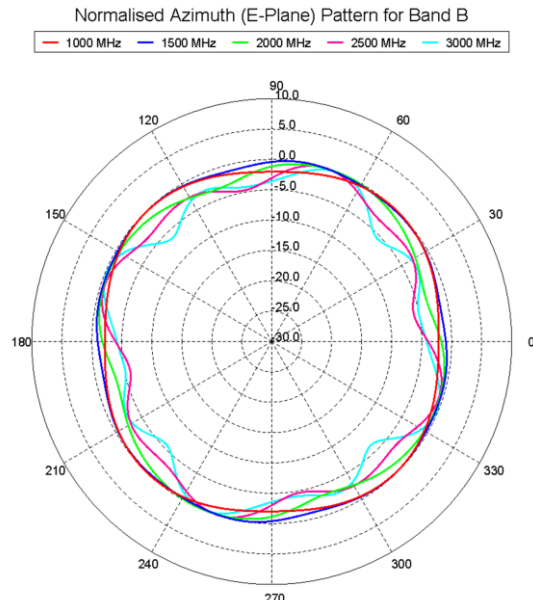
VERTICAL POL PATTERNS



HORIZONTAL POL PATTERNS



HORIZONTAL POL PATTERNS



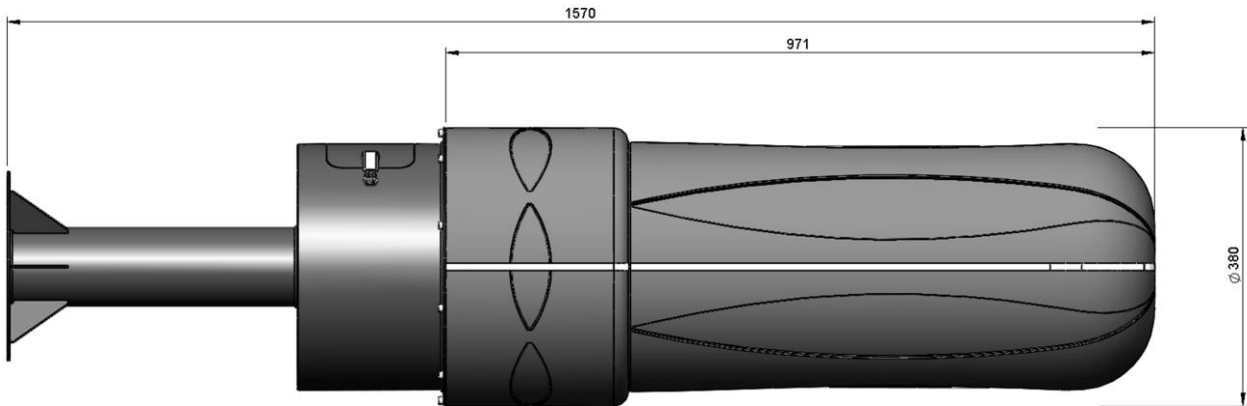
Vertical and Horizontal Monitoring Antenna

20 – 6000 MHz

Product Code: OMNI-A0191

VERSION: 1.2

PRODUCT DIMENSIONS:



MAST MOUNTING SYSTEM:



ACCESSORIES:



MISC-A0022 wideband coaxial 15 V power supply suitable for the OMNI-A00191

Please refer to latest product brochure for more details.

