

Vertical and Horizontal Monitoring Antenna

20 – 6000 MHz

Product Code: OMNI-A0371

VERSION: 1.1



PRODUCT DESCRIPTION:

The OMNI-A0371 is a compact integrated vertical / horizontal polarisation monitoring antenna for the band 20 MHz to 6 GHz.

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

RELATED PRODUCTS:

- MISC-A0066

SPECIFICATIONS:

Electrical: vertical	
Frequency range	20 – 6000 MHz
Gain	See graphs for typical values
Connector	1 x N-f
E-plane beamwidth	60 °
H-plane beamwidth	360 ° nominal
Azimuth pattern ripple	20-3000 MHz: < 6 dB (RMS)
Vertical	3000-6000 MHz: < 10 dB (RMS)
Horizontal	20-3000 MHz: < 6 dB (RMS)
	3000-6000 MHz: < 10 dB (RMS)
Power rating	Receive only
Input voltage on coax	14-24 VDC
Input current	< 200 mA
OP1 dB (typ)	11 dBm
OIP2 (typ)	50 dBm
OIP3 (typ)	25 dBm
Electrical: horizontal	
Frequency range	20 – 6000 MHz
Gain	See graphs for typical values
Connectors	1 x N-f
E-plane beamwidth	360 °
H-plane beamwidth	60 ° nominal
Azimuth ripple	< 10 dB
Power rating	Receive only
Input voltage on coax	15 ± 1 V DC
Input current	< 150 mA
OP1 dB (typ)	11 dBm
OIP2 (typ)	50 dBm
OIP3 (typ)	25 dBm
Mechanical:	
Dimensions (mast included)	< Ø 0.35 m x 1.62 m
Dimensions (mast excluded)	< Ø 0.305 m x 1.02 m
Total mass	16 kg
Environmental: designed to meet the following specifications	
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)

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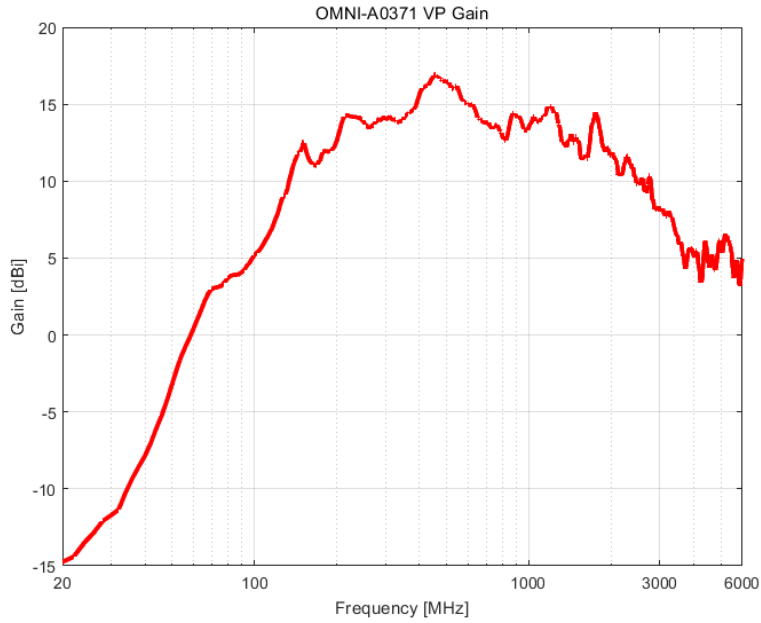
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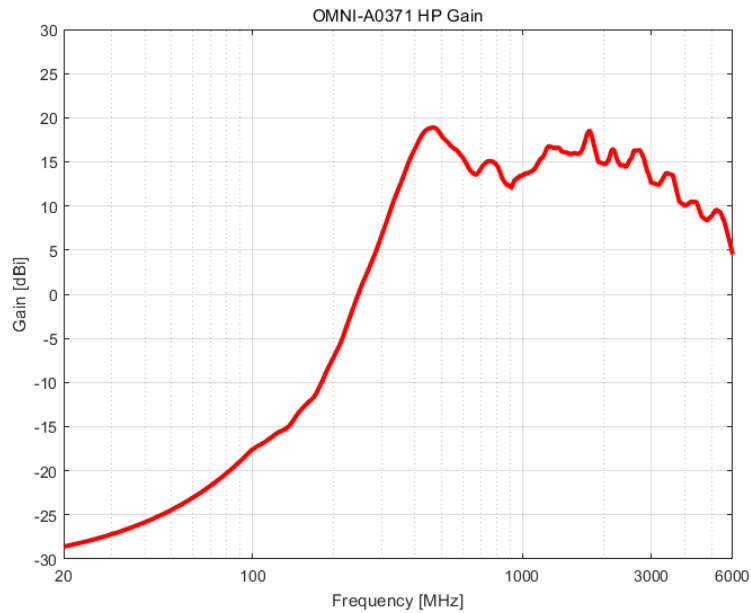
VERSION: 1.1

GAIN:

VERTICAL POL:



HORIZONTAL POL:



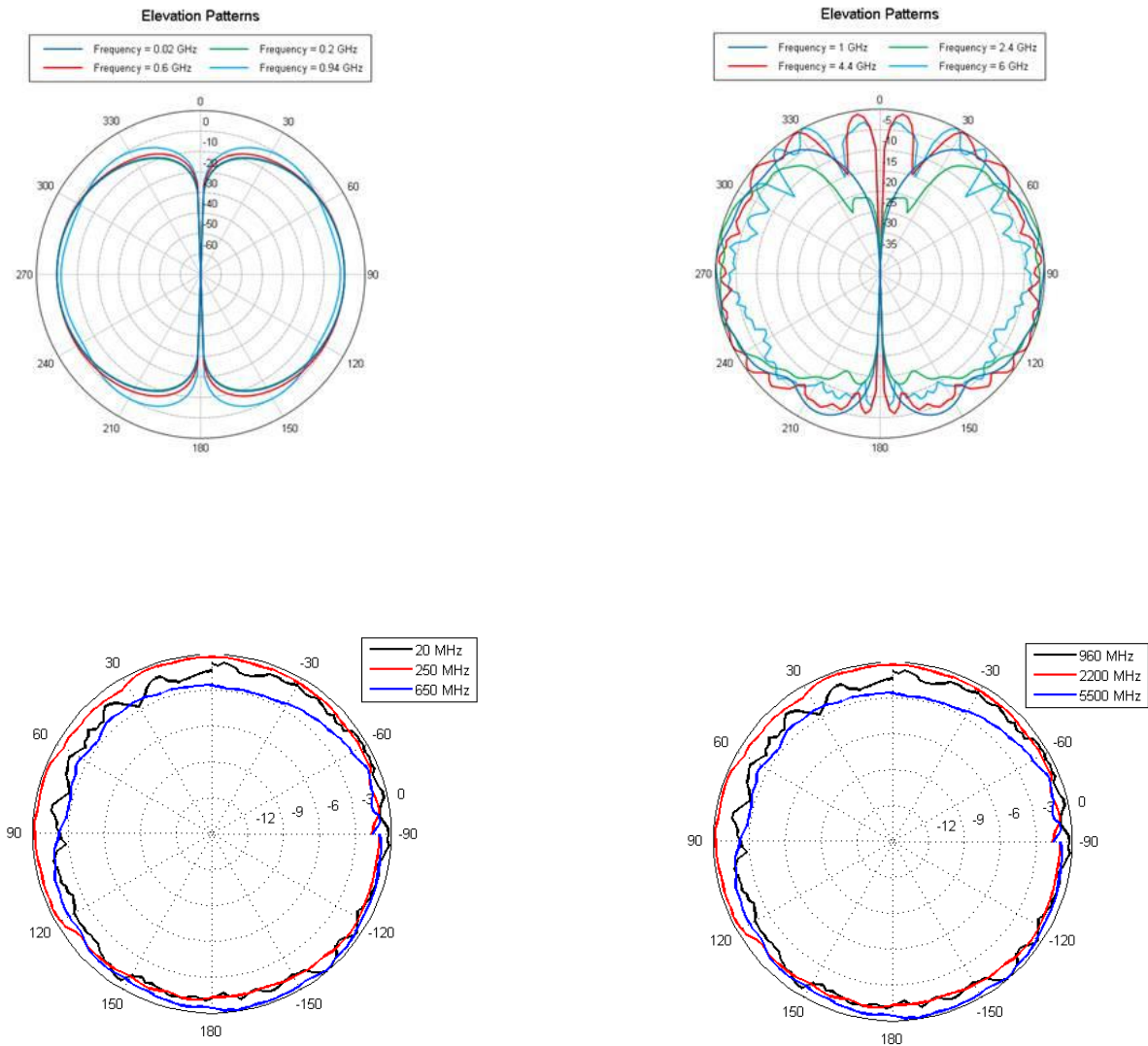
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VERTICAL POL PATTERNS:



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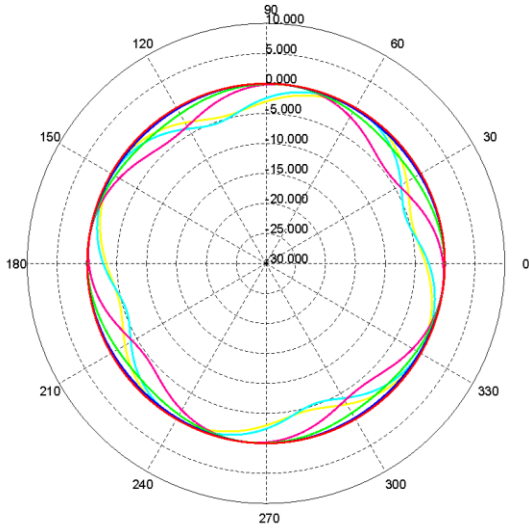
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HORIZONTAL POL PATTERNS:

Normalised Azimuth (E-Plane) Pattern for Band A

— 20 MHz — 200 MHz — 400 MHz — 600 MHz — 800 MHz — 1000 MHz



HORIZONTAL POL PATTERNS:

Normalised Azimuth (E-Plane) Pattern for Band B

— 1000 MHz — 1500 MHz — 2000 MHz — 2500 MHz — 3000 MHz

