

# Horizontally Polarised Omni-Directional Antenna

500 – 3000 MHz

Product Code: OMNI-A0100

VERSION: 3.2



## SPECIFICATIONS:

<b>Electrical:</b>	
Frequency range	Band A: 500 – 1000 MHz Band B: 1000 – 3000 MHz
VSWR	< 2.5:1
Feed power handling	0.25 W
Nominal input impedance	50 $\Omega$
Connector	2 x N-type female Supplied with N-M cables
Gain	See graph
Gain variation over azimuth	< 3 dB RMS
Polarisation	Linear: horizontal
<b>Mechanical:</b>	
Dimensions ( $\phi$ x h)	370 mm x 800 mm
Weight	20 kg
Mounting method	8 x M12 bolts in flanges
<b>Environmental: designed to meet the following specifications</b>	
Wind survival	160 km/h as part of SYST-A0004
Temperature (operational)	-30 °C to +70 °C
Relative humidity (operational)	< 95%
Salt / fog	Yes
Vibration	MIL-STD-810F vehicle
Shock	20 G
Operational rainproof	Yes
Water ingress rating	IP 65 (NEMA 4X)

## PRODUCT FEATURES:

- Wideband horizontal omni
- Smooth radiation patterns
- Hollow centre core allows cables to pass through the antenna
- Heavy aluminium tube to support further antennas above this omni

## APPLICATIONS:

- Spectrum monitoring
- General purpose receiving antenna
- Part of an antenna stack

## PRODUCT DESCRIPTION:

This omni-directional antenna is designed for monitoring of horizontally polarised RF signals in the frequency range 500 to 3000 MHz.

The band is covered by 2 antenna arrays, mounted under a single compact radome. They each consist of 8 dipoles, combined in phase around the mast.

A generous central cavity allows several large cables to be passed through the antenna, for feeding other bands or DF antennas higher up the stack. The substantial mast and flanges allow heavy antennas to be mounted above the omni.

This antenna is part of the SYST-A0004 stack providing interferometric DF, vertical and horizontal polarisation monitoring in the range 20 to 3000 MHz.

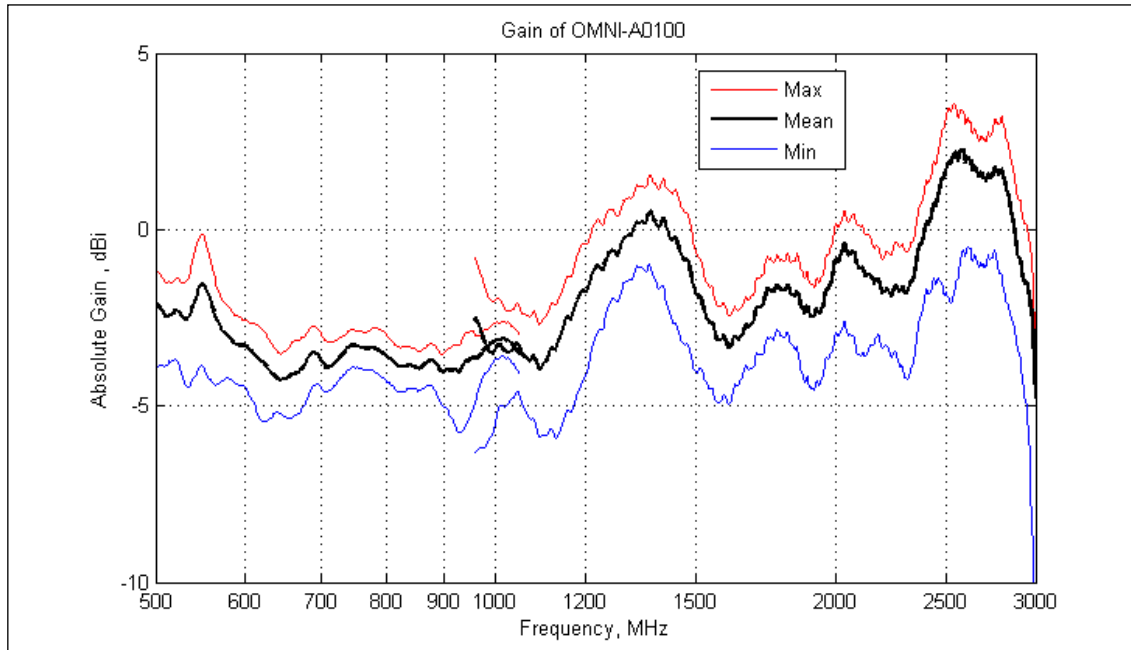
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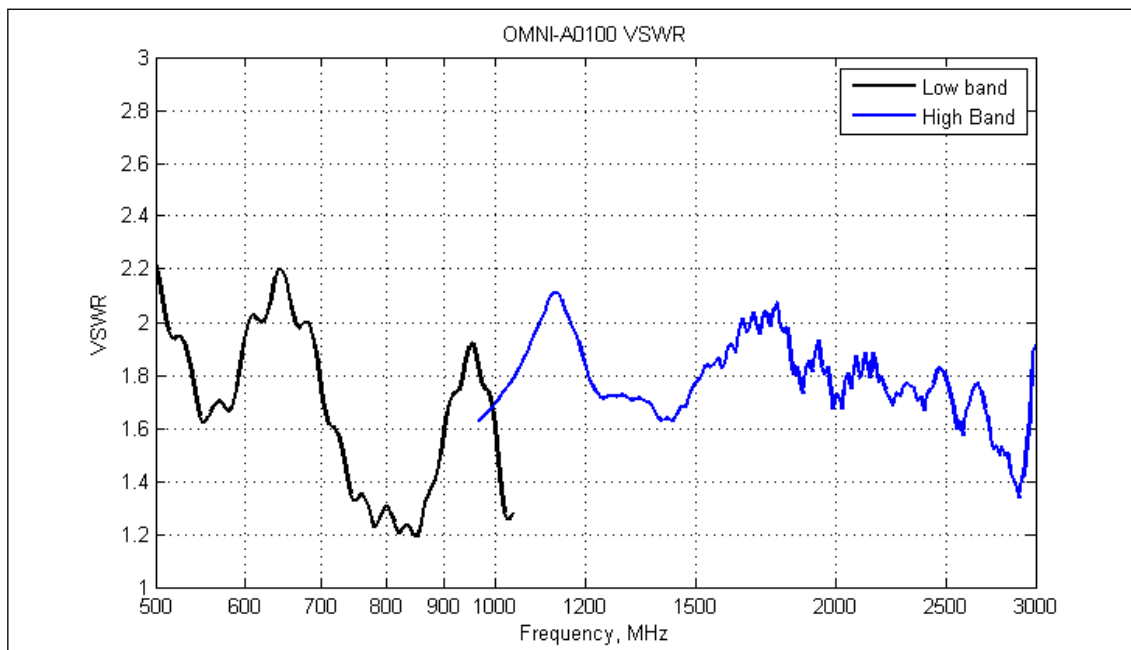
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## MEASURED GAIN:



## VSWR:



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Lexington, Massachusetts  
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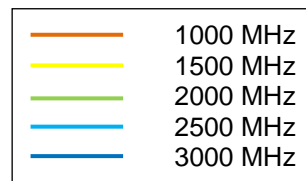
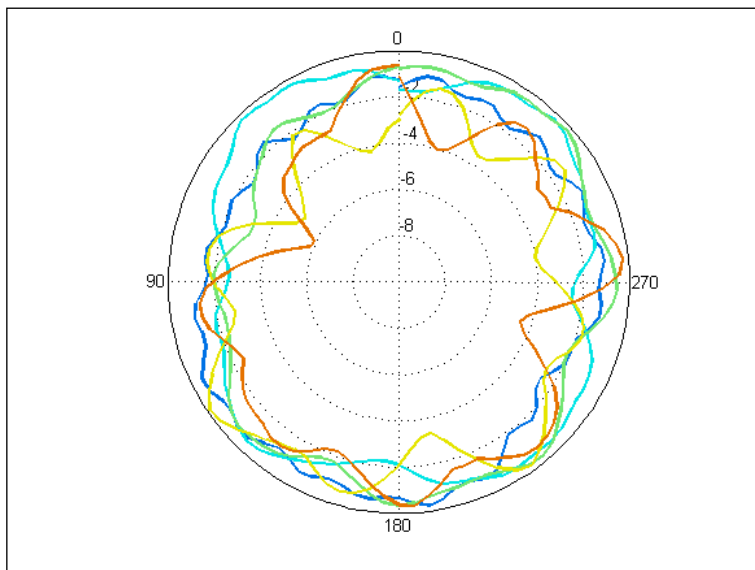
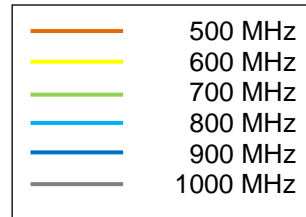
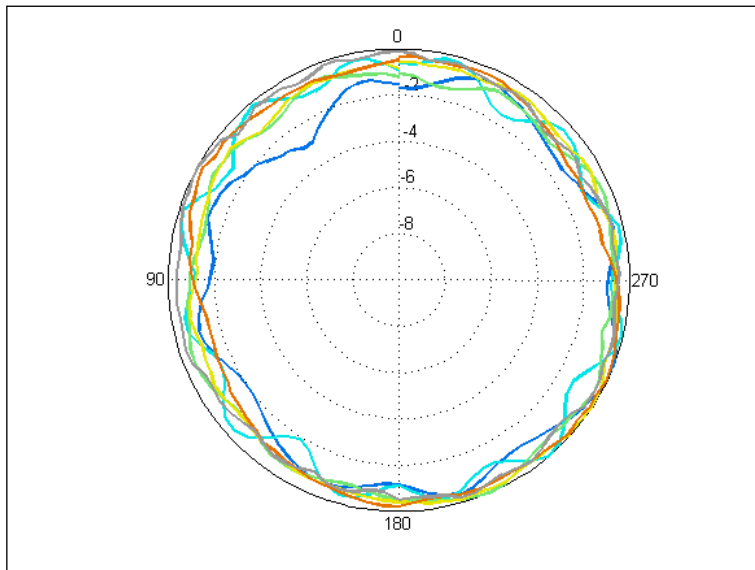
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TYPICAL RADIATION PATTERNS:



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