



SPECIFICATIONS:

Product codes:		
	Active antenna	
-01	Active antenna with passive bypass	
-02	Passive antenna	
Electrical:	/-01	-02
Frequency range	20 – 6000 MHz	
Polarisation	Vertical	
VSWR	< 2.5:1 typical (active version)	
Nominal input impedance	50 Ω	
Connectors	1 X N-type female	
E-plane beamwidth	60° nominal	
H-plane beamwidth	360°	
Azimuth ripple	< 6 dB	
DC voltage supply	15 ± 1 VDC	-
Supply current	< 150 mA	-
Amplifier gain	16.9 dB @ 2 GHz	-
Amplifier noise figure	See graph	
Relay durability	> 1 M operations	
Relay switching time	< 3 ms	
Mechanical:		
Dimensions, antenna	< Ø120 mm x 200 mm	
Total mass	1 kg	
Mounting method, mast	Mounts to 30 mm to 60 mm pole using supplied right-angle U-bolt bracket	
Environmental: designed to meet the following specifications		
Wind survival	160 km/h when mounted on pole	
Effective wind area	< 0.03 m²	
Temperature range	-30 °C to +70 °C	
Humidity	0% to 85%	
Rain and dust proof	IP 65 rain resistant	

PRODUCT FEATURES:

- Ultra-wideband 20 to 6000 MHz
- Very good sensitivity
- Low profile compared to passive alternatives
- IP65

APPLICATION AREAS:

- General spectrum monitoring
- Suitable for mast-mount applications

RELATED PRODUCTS:

- MISC-A0022 power supply

PRODUCT DESCRIPTION:

The OMNI-A0333 is a compact monitoring antenna. Supplied in active, active with passive bypass and passive versions, it allows monitoring over the full 20 to 6000 MHz band.

The active version of the antenna includes amplification to help improve sensitivity. The antenna is best utilised with the MISC-A0022 power supply which injects DF power into the antenna to power the amplifier. The -01 features a passive-bypass mode which is engaged when the antenna is not powered. In this mode, the antenna is completely passive, allowing for low distortion measurements in the presence of high incident fields.

Mast-mounting with the supplied bracket allows the antenna to be permanently mounted outdoors. The antenna is waterproof and UV stabilised, it can be used as a compact antenna for a permanent monitoring system.

The antenna gain can be characterised if required for field strength monitoring requirements.

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Compact Monitoring Antenna

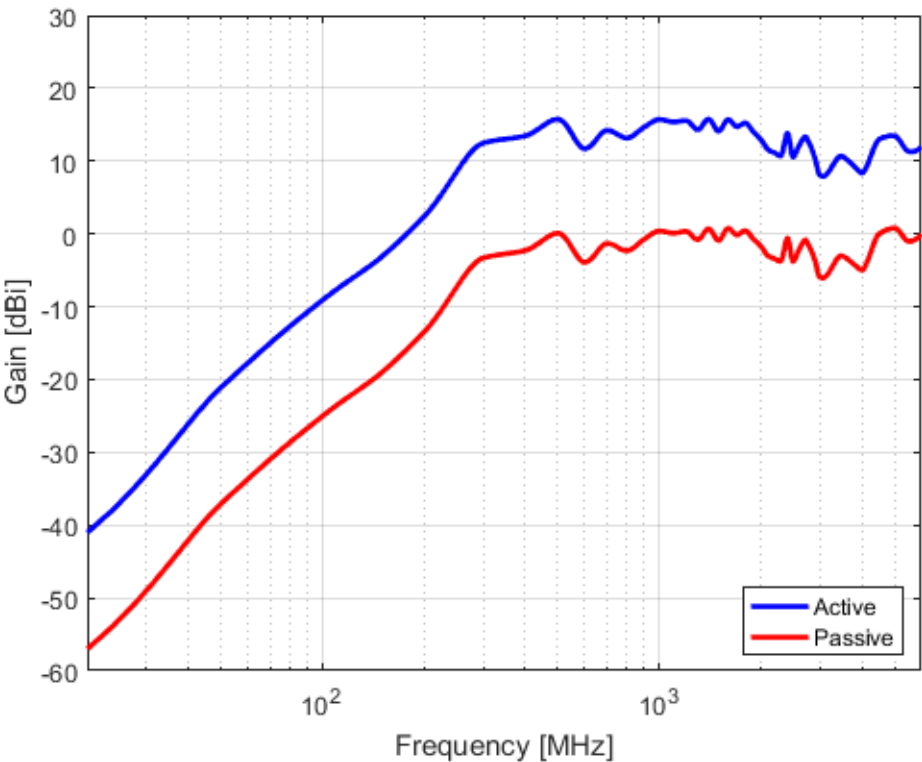
20 – 6000 MHz

Product Code: OMNI-A0333

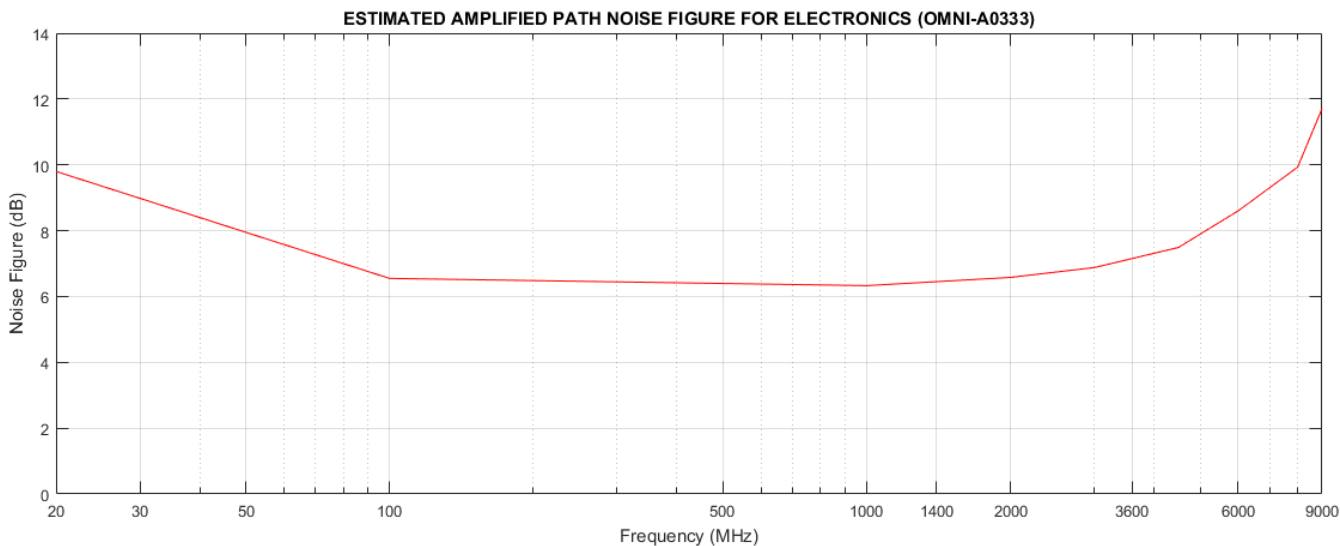
VERSION: 1.2

GAIN AND NOISE FIGURE GRAPHS:

Gain:



Noise figure:



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