

# Active Monitoring Antenna

20 – 6000 MHz

Product Code: OMNI-A0107

VERSION: 3.7

## SPECIFICATIONS:



<b>Product code:</b>	
OMNI-A0107	2 x N-type female connectors
OMNI-A0107-01	1 x N-type female connector
OMNI-A0107-02	2 x N-type female connectors; passive antenna
<b>Electrical:</b>	
Frequency:	
OMNI-A0107 /-02: Band A Band B	20 MHz – 1000 MHz 1000 MHz – 6000 MHz
OMNI-A0107-01	20 – 6000 MHz
Sensitivity in 1 Hz bandwidth	Below 3 GHz: -20 dB $\mu$ V/m Above 3 GHz: -10 dB $\mu$ V/m
Feed power handling	Receive only
Nominal impedance	50 $\Omega$
Polarisation	Vertical
Pattern	Omni-directional
Power supply	Via RF cable 12.5 – 24 V DC
Power supply voltage transient withstand (100 mS)	60 V
Reverse polarity protected	-60 V
Operating current	100 mA max
Absolute maximum field strength (no damage)	Below 10 MHz: 50 V/m 10 – 100 MHz: 40 V/m Above 100 MHz: 20 V/m
<b>Mechanical:</b>	
Dimensions (l x w x h)	220 mm x 110 mm x 350 mm
Weight	< 1.4 kg
<b>Environmental: designed to meet the following specifications</b>	
Wind survival	200 km/h / 120km/h broadside
Temperature range	- 30 °C to +70 °C
Shock	40 G for 10 ms
Thermal shock	- 30 °C to +70 °C : 10 cycles
Water ingress rating	IP 65

### ELECTRICAL FEATURES:

- Very wide bandwidth (20 MHz to 6 GHz)
- Excellent performance in a small package due to the use of active technology

### MECHANICAL FEATURES:

- Low profile
- Robust
- Suited for vehicle-mount applications

### PRODUCT DESCRIPTION:

The OMNI-A0107 is a dual ultra-wideband omni-directional monitoring antenna making it suitable for general spectrum surveillance. The use of active components in the antenna provide for a compact design.

The OMNI-A0107-01 is a single-output version of the antenna to allow the entire spectrum to be covered by a receiver via one N-type female connector.

The OMNI-A0107-02 is a passive version of the OMNI-A0107 utilising two RF connectors.

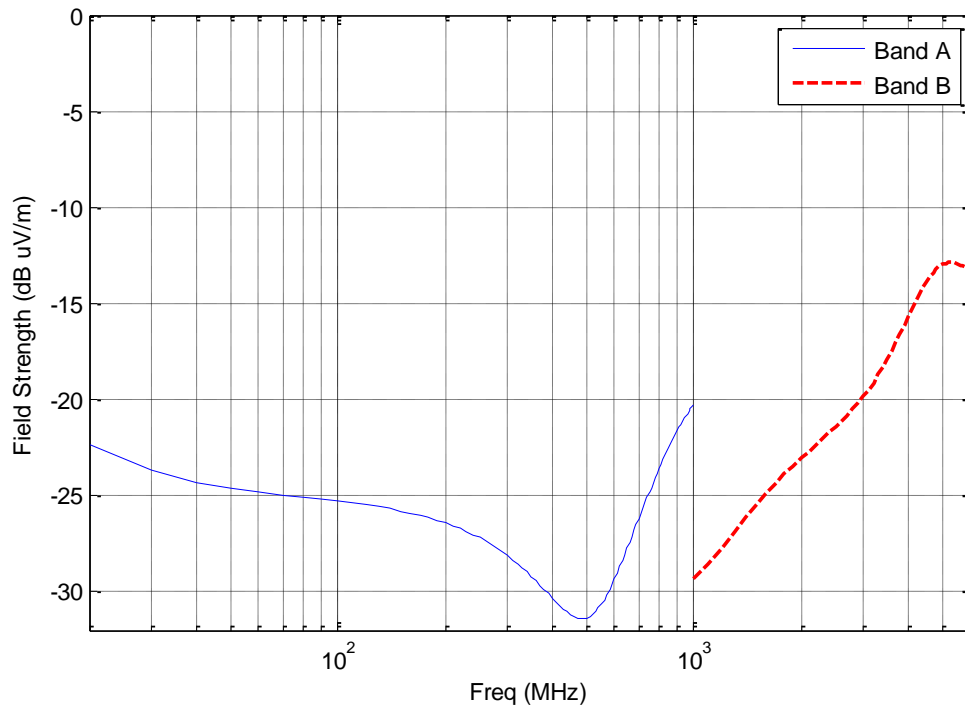
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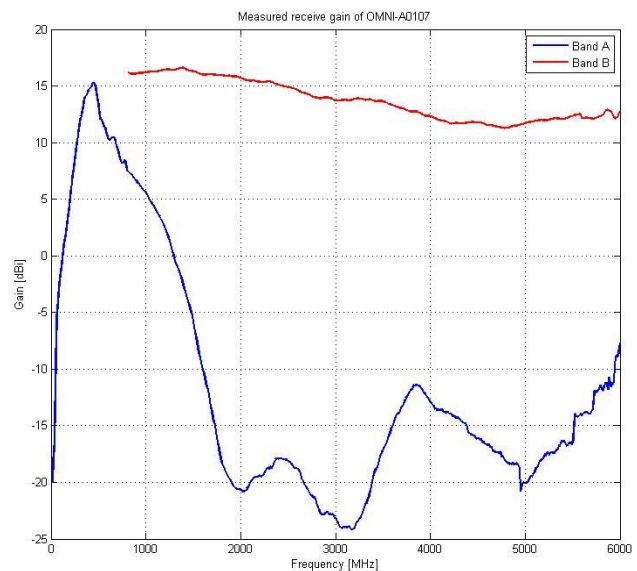
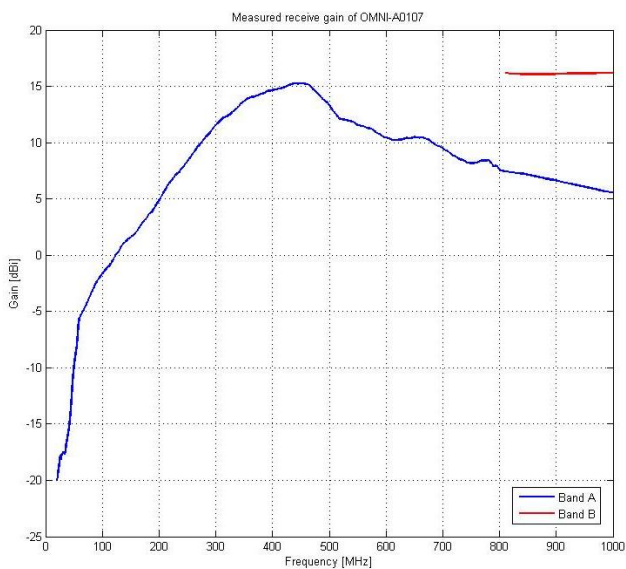
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## FIELD STRENGTH SENSITIVITY: OMNI-A0107



## ANTENNA GAIN: OMNI-A0107



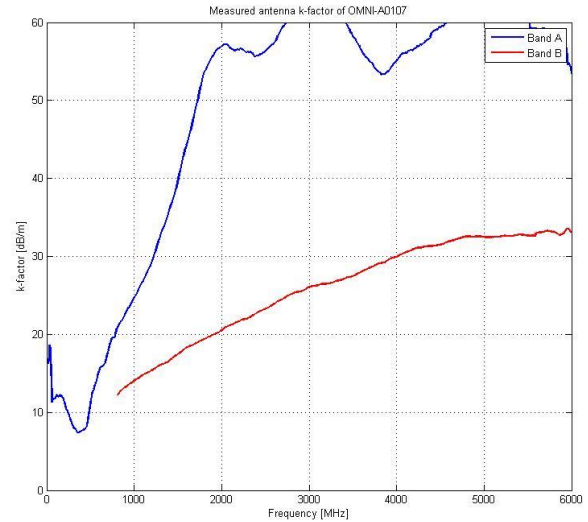
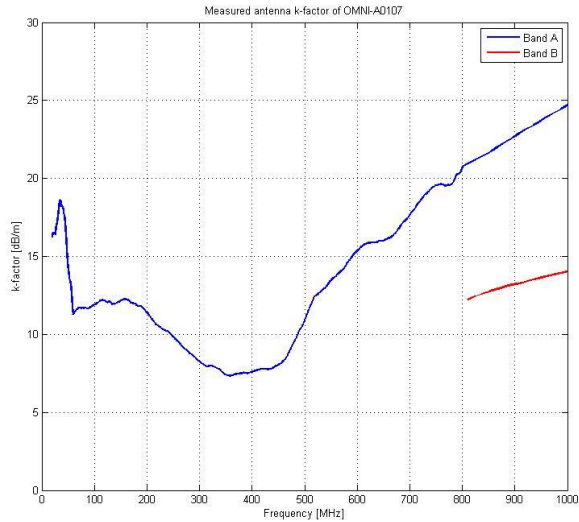
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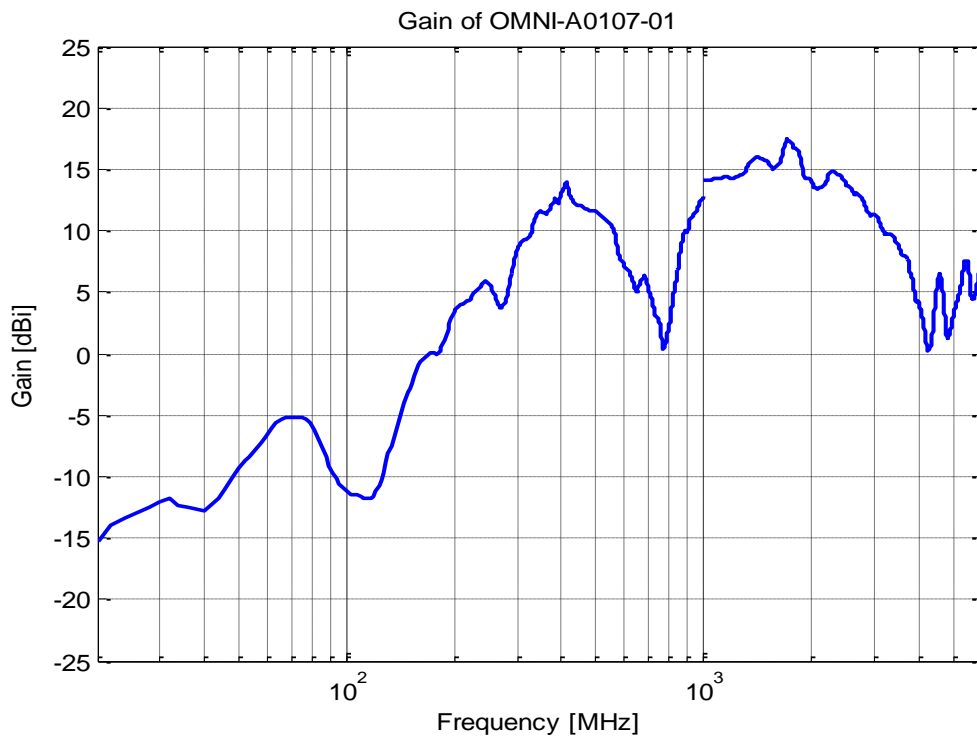
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## ANTENNA FACTOR: OMNI-A0107



## ANTENNA GAIN: OMNI-A0107-01



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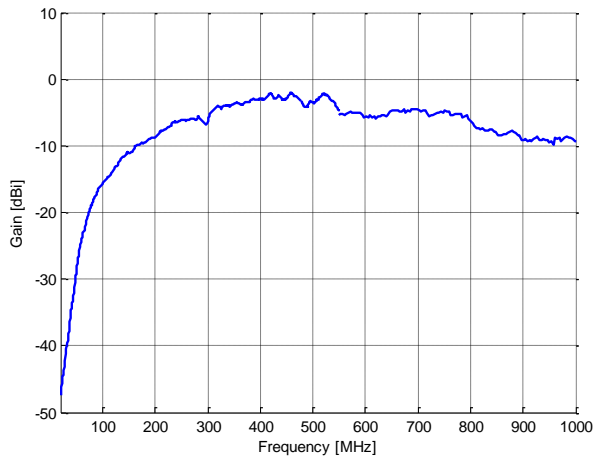
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ANTENNA GAIN: OMNI-A0107-02

Band A:



Band B:

