

Active monitoring antenna

OMNI-A00165

20MHz-6000MHz



PRODUCT FEATURES:

- High sensitivity despite smaller size
- Ultra-wide frequency range (20 MHz to 6000 MHz)
- Lightweight
- Low profile
- Shock and vibration proof

APPLICATION:

- Portable wideband monitoring
- Suitable for vehicle and shelter mount applications

PRODUCT DESCRIPTION:

The OMNI-A00165 is an ultra-wideband omni-directional active monitoring antenna. It is suitable for general spectrum surveillance and monitoring purposes. The use of active components in the antenna allow for compact design. This antenna is shock and vibration-proof, which is making it particularly suitable for vehicle mount applications..

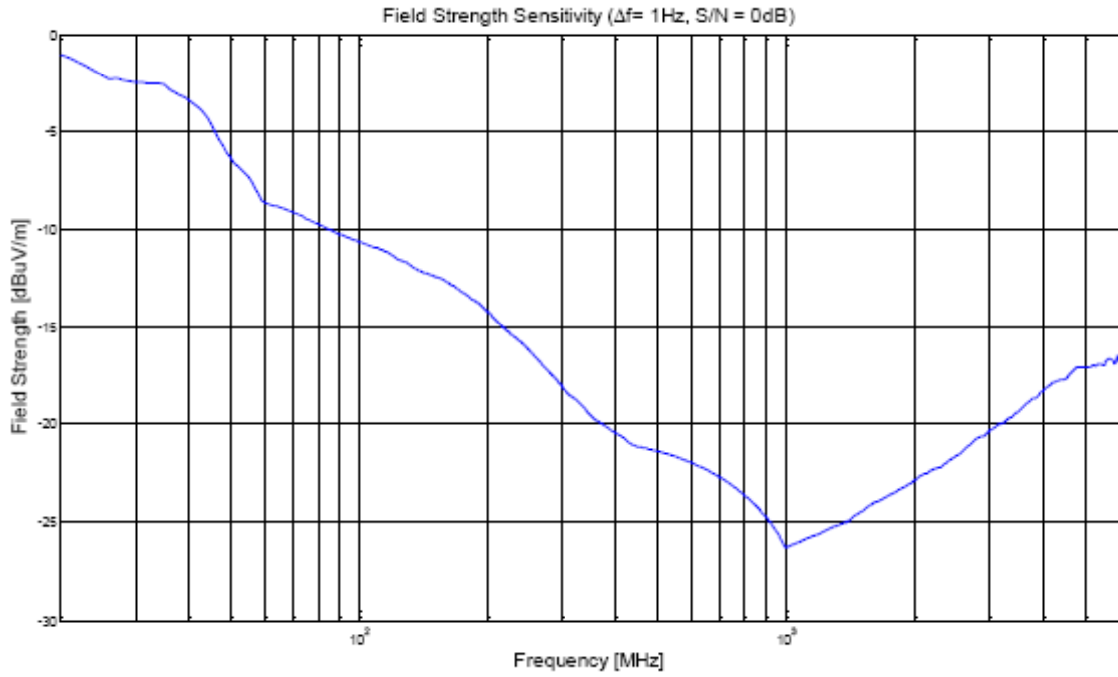
SPECIFICATIONS:

Electrical:	
Frequency range	20 MHz – 6000 MHz
Polarization	Vertical
Pattern	Omni-directional
Nominal input impedance	50 Ω
VSWR	< 3.5 typ.
Field strength sensitivity (Δf = 1Hz, S/N = 0 dB)	below 100 MHz: 0 dBμV/m 100 MHz < f < 1 GHz: -10 dBμV/m above 1 GHz: -15 dBμV/m
Antenna factor	7 dB – 33 dB
Gain	- 20 dBi to 16 dBi
Power supply	12.5 – 24 V DC(max. 100mA)-Via RF cable
Power supply voltage transient withstand	60 V (100 mS)
Reverse polarity protected	- 60 V
Connector	N-type female
Feed power handling	Receive only
Ground plane requirement	2000 mm x 2000 mm (minimum recommended size)
Mechanical:	
Wide survival	160 km/h broadside
Operating temperature range	- 20 °C to +70 °C
Shock	40 G for 10 ms
Water ingress rating	IP65



“OMNI-A00165” 20MHz – 6000MHz

Field strength sensitivity



Antenna Gain:

