

Wideband Monitoring Antenna

20 – 18 000 MHz

Product Code: OMNI-A0365

VERSION: 1.0



SPECIFICATIONS:

Product code:	
OMNI-A0365-02	Passive antenna with two N-type female connectors
Electrical:	
Frequency range*:	Band A: 20 – 1000 MHz Band B: 1000 – 18000 MHz
Gain	-6 to -3 dBi from 1 to 2 GHz, -3 to 0 dBi from 2 to 6 GHz, 0 dBi from 6 to 14 GHz and 0 dBi to -2 dBi from 14 to 18 GHz
Nominal H-plane 3 dB beamwidth	360°
Nominal E-plane 3 dB beamwidth 20 to 1000 MHz 1000 to 18 000 MHz	60° 100° decreasing to 20° with increasing frequency
Azimuth ripple (RMS)	± 2.5 dB
VSWR (typ.)	≤ 2.5:1 from 1 to 2 GHz, ≤ 2.0:1 from 2 to 18 GHz
Polarisation	Linear, vertical
RF power rating	Receive only
Connector type OMNI-A0365-02	2x N-type female
Mechanical:	
Height	730 mm x 350 mm
Weight	< 8.5 kg
Environmental: designed to meet the following specifications	
Operating temperature	-40 °C to +65 °C
Storage temperature	-55 °C to +85 °C
UV stability	Yes
Operational rainproof	Yes
Operational humidity	95% at +25 °C and +55 °C
Wind velocity (no ice)	180 km/h
Sand and dust resistant	Yes
Vibration	10 Hz – 300 Hz: 0.01 g/Hz 300 Hz – 500 Hz: 0.03 g/Hz
Mechanical shock	40 g @ 15 ms all axis
Indirect lightning survival	Yes
Salt fog	Yes. 47 °C with 5% NaCl solution

PRODUCT FEATURES:

- Ultra wideband 20 to 18000 MHz
- Very good sensitivity
- Low profile compared to alternatives
- Robust
- IP56

APPLICATION AREAS:

- General spectrum monitoring
- Suitable for vehicle-mount and mast-mount applications

PRODUCT DESCRIPTION:

This vertically polarized, ultra-wideband omni-directional monitoring antenna covers 20 to 18000 MHz and is ideal for spectrum monitoring applications.

The design is compact and robust, making it suitable for vehicle as well as mast mount applications. The antenna has 2x N-Type female outputs, one for each band.