

Compact Monitoring Antenna

20 – 6000 MHz

VERSION: 2.1

Product Code: OMNI-A0190



SPECIFICATIONS:

| Product codes: | | |
|---|---|----------------------|
| OMNI-A0190 | Active version including amplifier | |
| OMNI-A0190-02 | Passive version | |
| OMNI-A0190-03 | Active version including amplifier without table stand. Supplied with RF cable with N-m connector | |
| OMNI-A0190-04 | Passive version without table stand. Supplied with RF cable with N-m connector | |
| Electrical: | OMNI-A0190 | OMNI-A0190-02 |
| Frequency range | 20 – 6000 MHz, gain drops off below 80 MHz | |
| Polarisation | Vertical | |
| VSWR | < 2.5:1 typical (active version) | |
| Nominal input impedance | 50 Ω | |
| Internal construction | 2 x bi-conical antennas with diplexer | |
| Connectors | 1 x TNC-f in base for standard and -02 versions 1 X N-f in base for -03 and-04 versions | |
| OP1dB (typ.) (in active mode) | 11 - 15.5 dBm | |
| OIP3 (typ.) (in active mode) | 24 - 30 dBm | |
| Noise Figure | 5 dB | |
| 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 | 10 dB nominal | - |
| Mechanical: | | |
| Dimensions, antenna | Ø102 mm x 311 mm | |
| Total mass | 1 kg | |
| Mounting method, table | Mounts on supplied stand Includes 2 m flexible cable | |
| 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 m ² | |
| Temperature range | -30 °C to +70 °C | |
| Humidity | 0% to 95% | |
| Rain and dust proof | IP 65 rain resistant | |

PRODUCT DESCRIPTION:

The OMNI-A0190 is a compact monitoring antenna. Supplied in both active 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 lower cost passive version has no amplification and is more appropriate for use where high incident power levels are expected.

Table-top mounting is used for system demonstrations. Using the supplied base and RF cable, the antenna can be neatly positioned on a table for shows, meetings and demos. The product printing can be customised to suit the client's requirements.

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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GAIN AND FIELD STRENGTH SENSITIVITY GRAPHS:

