

SPECIFICATIONS:

| Electrical: | |
|-------------------------------|---|
| Frequency range | 9 kHz – 30 MHz |
| Polarisation | Vertical |
| Nominal input impedance | 50 Ω |
| Connectors | N-Type female |
| Sensitivity in 1 Hz bandwidth | Better than 1 μV/m |
| OP1 | 24 dBm |
| OIP2 | 43 dBm |
| OIP3 | 33 dBm |
| Input voltage | 12.5 – 15.5 VDC |
| DC input current (max) | 400 mA |
| Mechanical: | |
| Length | 2.9 m |
| Total mass | 14 kg excluding packaging |
| Base dimensions | 300 mm x 300 mm |
| Ground plane diameter | 6000 mm |
| Mounting method | Free-standing on the ground. Levelling feet provided. Can be bolted to a concrete plinth. |
| Environmental: | |
| Wind survival | 120 km/h (without ice) |
| Water ingress rating | IP65 |
| Temperature | -30 °C to +70 °C |



PRODUCT DESCRIPTION:

The HF active whip monopole antenna is designed for deployment on open ground or permanent installation and includes a deployable ground plane. The antennas' radiation pattern is suitable for medium to long range HF monitoring. This antenna uses an operational amplifier as the active component of the antenna which operates from 9 kHz to 30 MHz.

The product features a passive bypass mode which comes into operation when the antenna is powered down. In this mode, the active matching and amplification circuitry is bypassed and the antenna operates as a completely passive receiving antenna.

PRODUCT FEATURES:

- 9 kHz to 30 MHz frequency range
- Rugged for tactical applications
- Quick deployment time
- Self-contained ground plane
- Glass fibre insulated radiator
- Lightning induced surge and static protection
- Passive bypass mode option

APPLICATIONS:

- HF monitoring

RELATED PRODUCTS:

- MONO-A0012: Vehicle-mounted version of this antenna
- MONO-A0029: 60 MHz version of the MONO-A0012
- Optional extra: MISC-A0022 inline DC bias supply

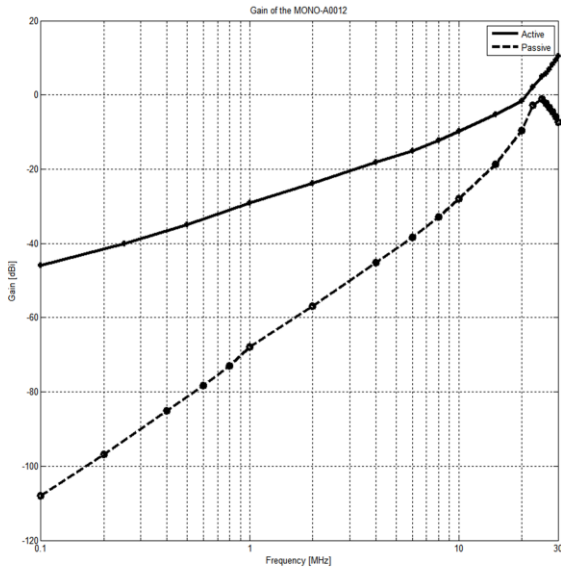
HF Active Monopole

9 kHz – 30 MHz

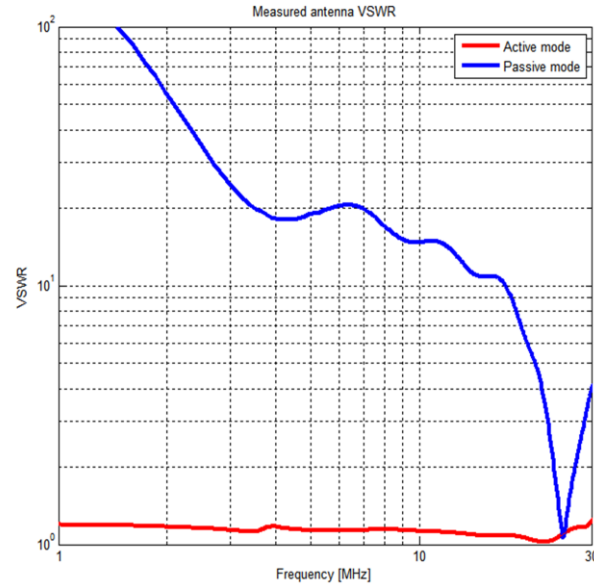
Product Code: MONO-A0071

VERSION: 1.0

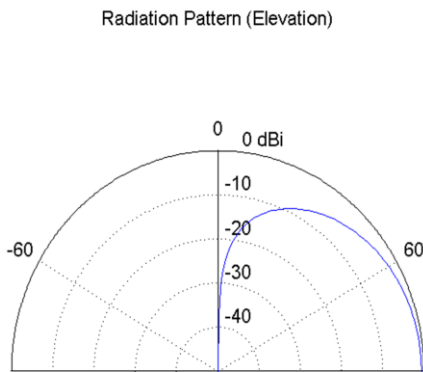
GAIN:



VSWR:



E-PLANE PATTERN



SNR of 1 $\mu\text{V/m}$ Signal in 1 Hz

