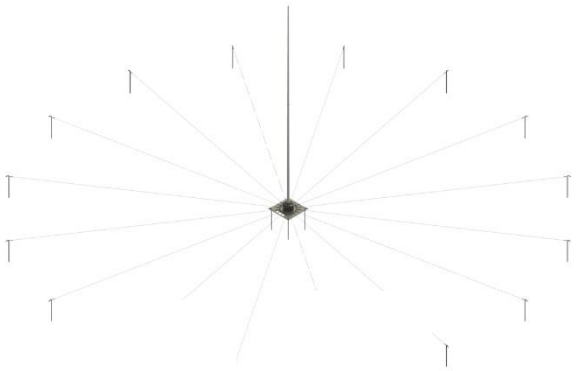
HF Active Monopole

9 kHz – 30 MHz

Product Code: MONO-A0071

VERSION: 1.3



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
Groundplane diameter	6000 mm
Mounting method	Free-standing on the ground; Levelling feet provided; Can be bolted to a concrete plinth
Environmental: designed to meet the following specifications	
Wind survival	80 km/h (free-standing) 120 km/h (with provided guy ropes) 160 km/h (bolted down)
Water ingress rating	IP65
Temperature	-30 ºC to +70 ºC

PRODUCT DESCRIPTION:

The HF active whip monopole antenna is designed for deployment on open ground or permanent installation and includes a deployable groundplane. 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
- Quick deployment time
- Self-contained groundplane
- 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

sales@alaris.co.za
www.alarisantennas.com

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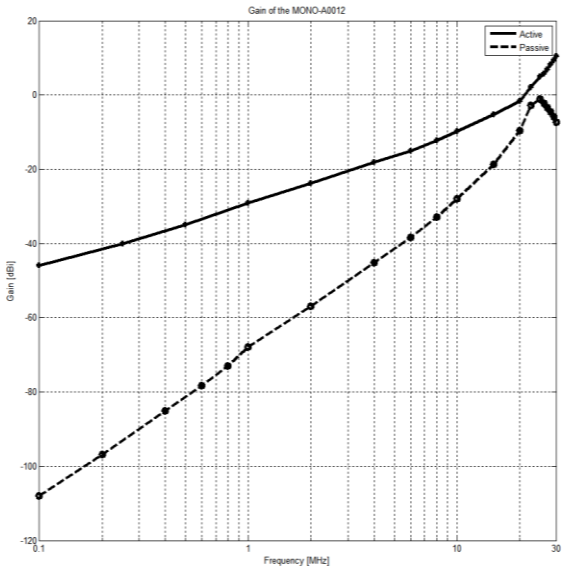
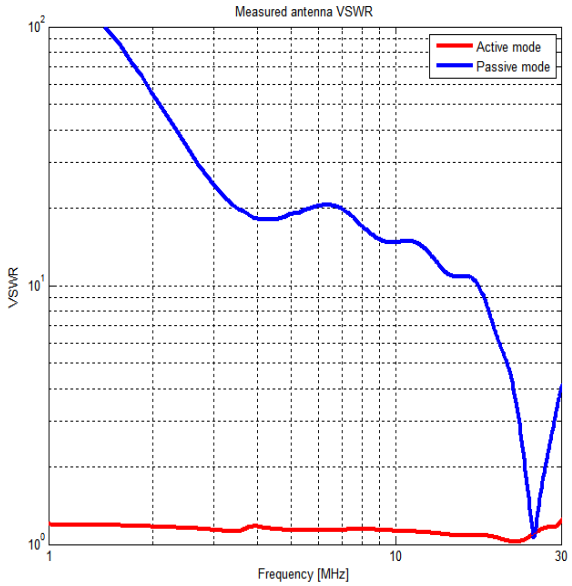
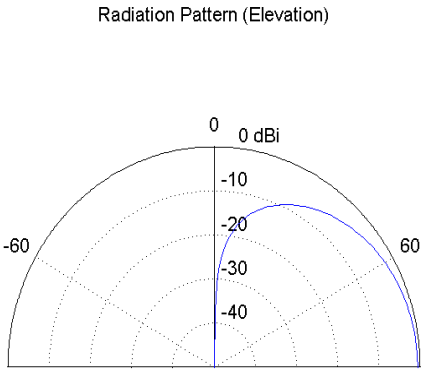
GAIN:



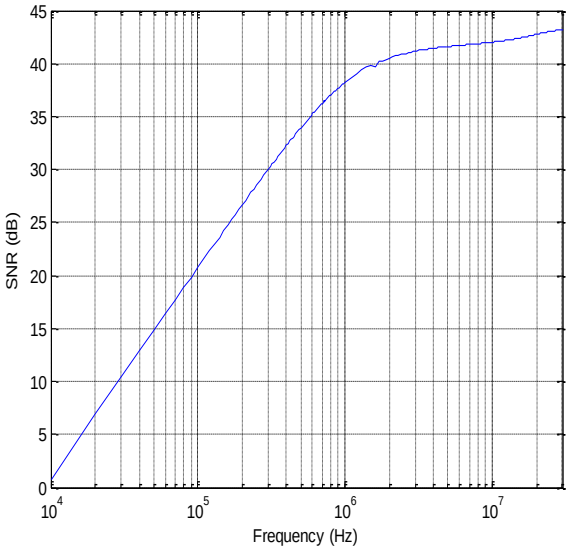
VSWR:



E-PLANE PATTERN:



SNR of 1 µV/m Signal in 1 Hz:



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