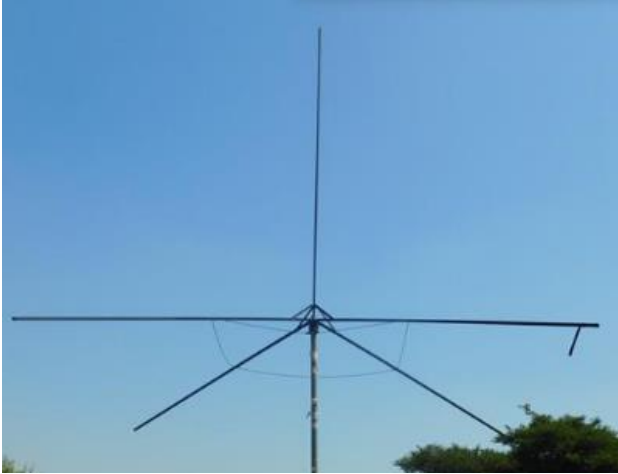


Wideband HF Antenna

1.5 - 30 MHz

VERSION: 1.3

Product Code: OMNI-A0354



SPECIFICATIONS:

Product codes:	
OMNI-A0354	1.5 – 30 MHz, 10 W
OMNI-A0354-01	1.5 – 30 MHz, 100 W
Electrical:	
Frequency range	1.5 - 30 MHz
Polarisation	Vertical
VSWR	< 4:1 typical
Gain	See graph below
Nominal input impedance	50 Ω
Power Handling	
OMNI-A0354	10 W
OMNI-A0354-01	100 W
Connectors	1 X N-type female
E-plane beamwidth	See graph below
H-plane beamwidth	360°
Groundplane	Ground Plane Dependent
Mechanical:	
Dimensions	
Antenna (deployed) (l x d)	3185 mm x 5333 mm
Antenna (stowed) (l x d)	2822 mm x 107 mm
Total mass	
OMNI-A0354	4.3 kg
OMNI-A0354-01	5.5 kg (TBC)
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
Temperature range	Storage: -30 °C to +70 °C Operation -30 °C to +55 °C
Humidity	MIL-STD-801F Test 507.4 Storage: 0% to 95% RH Operation: 0% to 95% RH
Rain and dust proof	IP 65 rain resistant

PRODUCT FEATURES:

- Wideband 1.5 MHz to 30 MHz
- Mast Mount
- IP65

APPLICATION AREAS:

- HF Communications
- Suitable for mast-mount applications

PRODUCT DESCRIPTION:

The OMNI-A0354 is a HF Whip antenna. The antenna has an integrated matching circuit to passively match the antenna to the transmitter/receiver.

The antenna includes 4x ground radials to act as counterpoise.

The antenna Gain and VSWR as depicted are with a counterpoise (ground plane) consisting solely of the provided radials. VSWR and Gain could improve with practical installations over actual ground or mast counterpoise conditions.

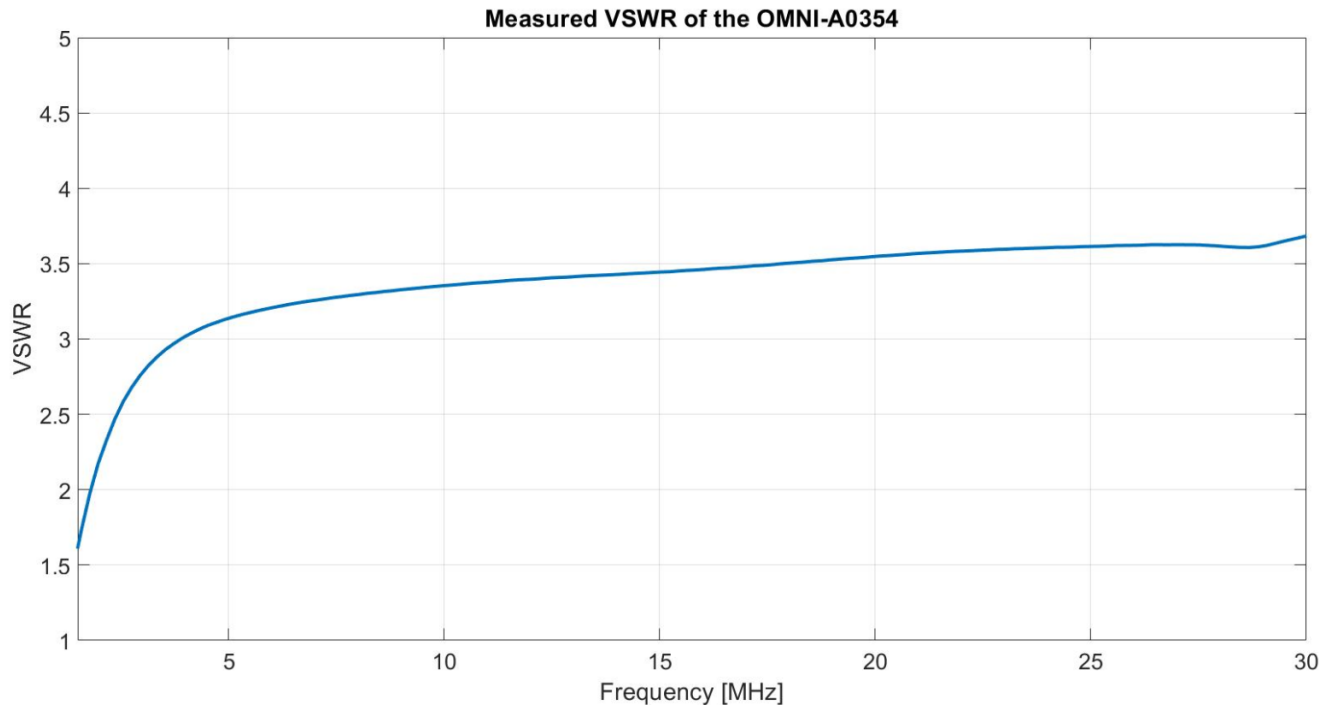
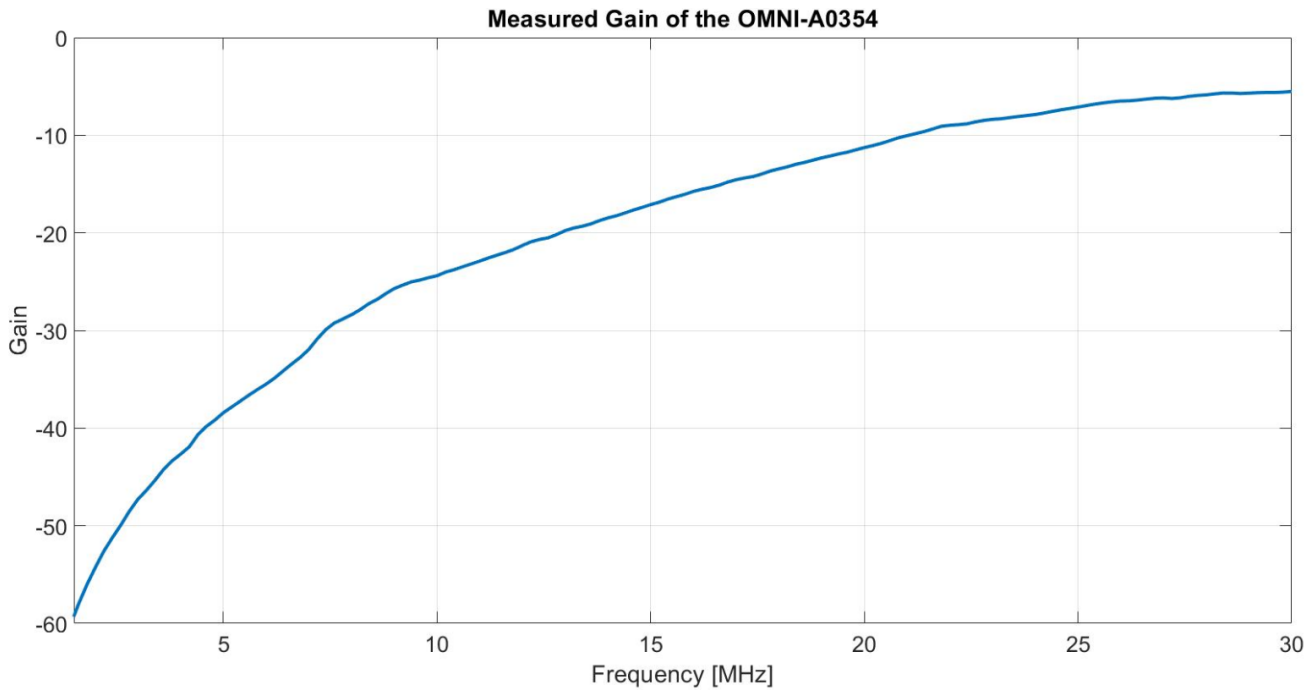
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GAIN AND VSWR:



Wideband HF Antenna

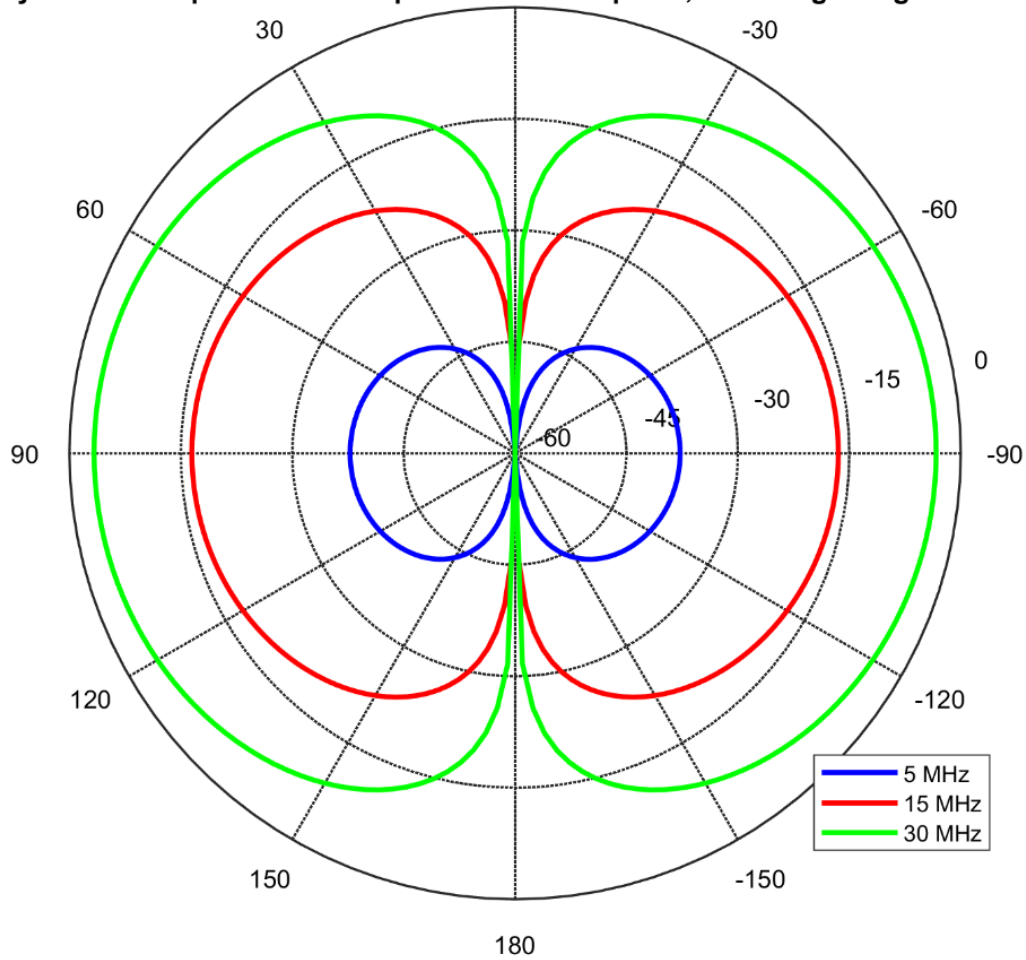
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ELEVATION PATTERN:

Elevation Gain Patterns using ground radials in freespace
(Practically achievable patterns will depend on counterpoise, mounting and ground conditions)



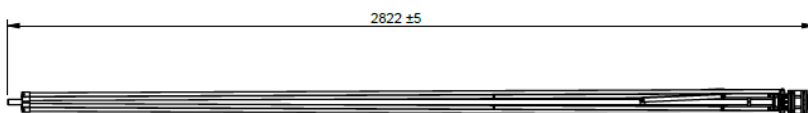
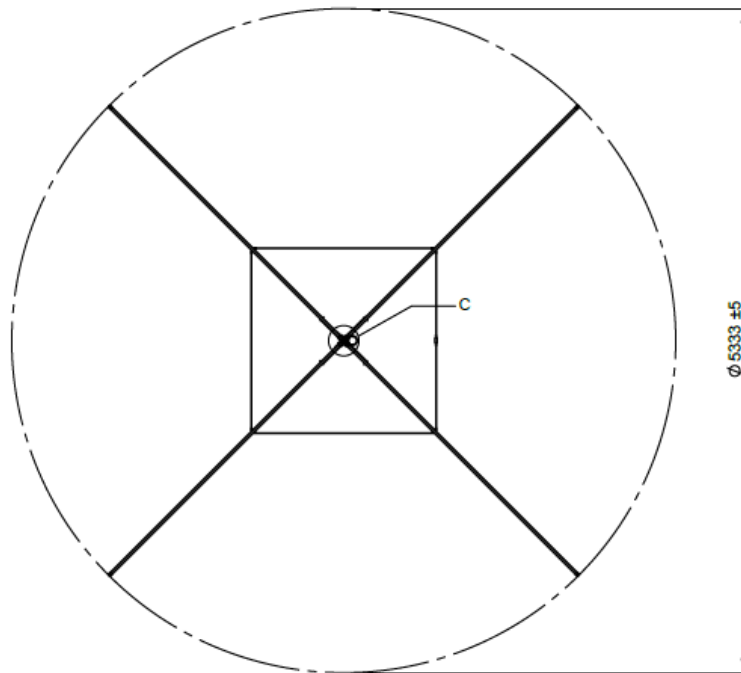
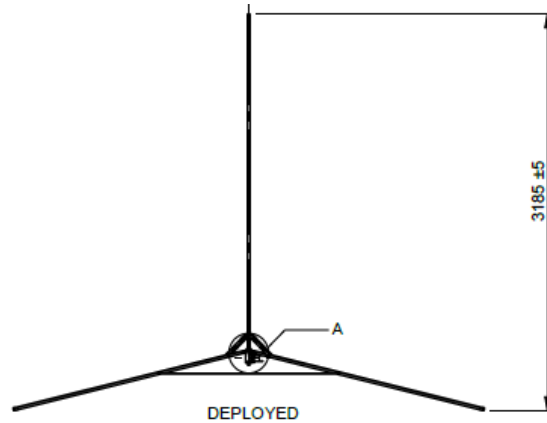
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MECHANICAL OUTLINE:



COLLAPSED

