


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.

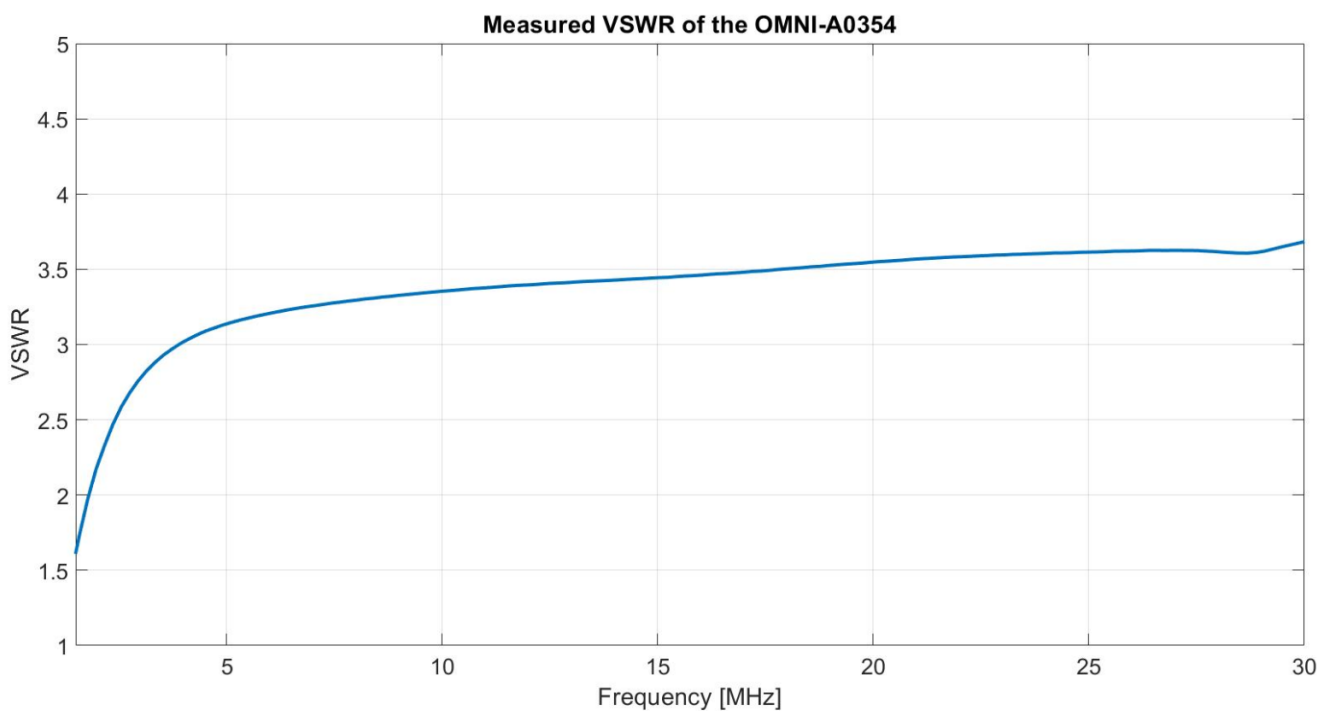
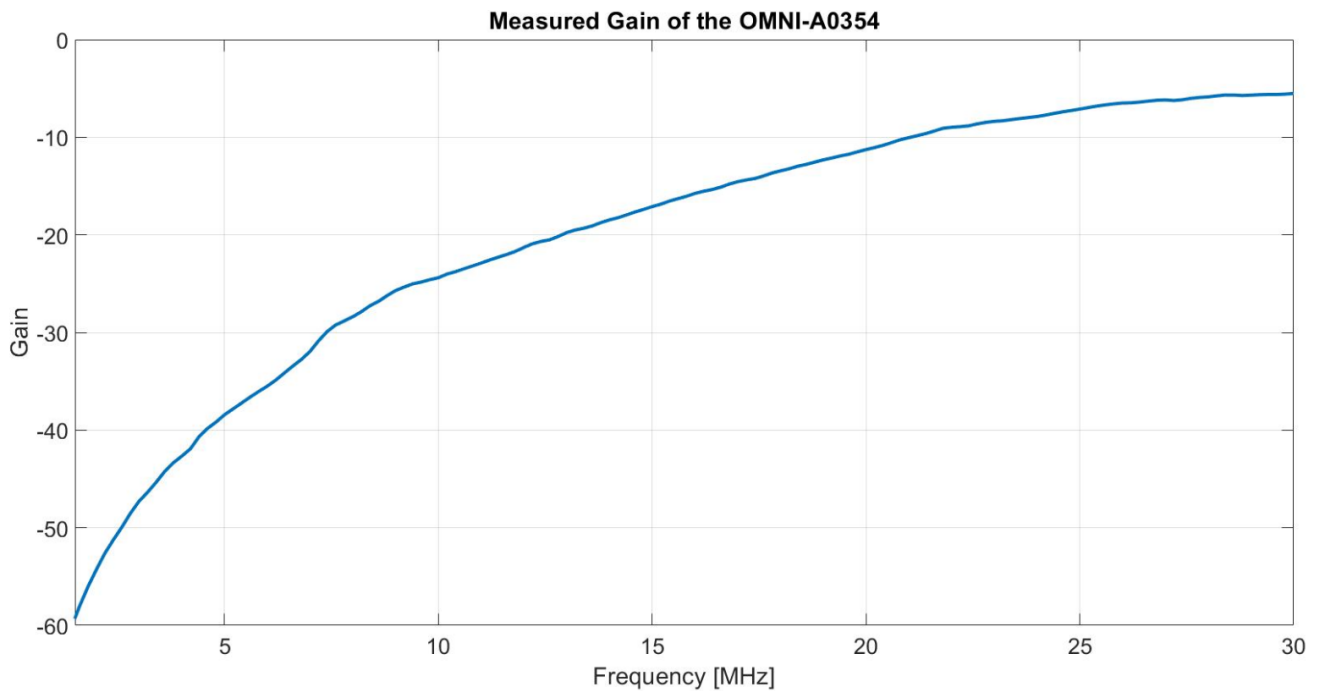
Wideband HF Antenna

1.5 – 30 MHz

Product Code: OMNI-A0354

VERSION: 1.4

GAIN AND VSWR:



Wideband HF Antenna

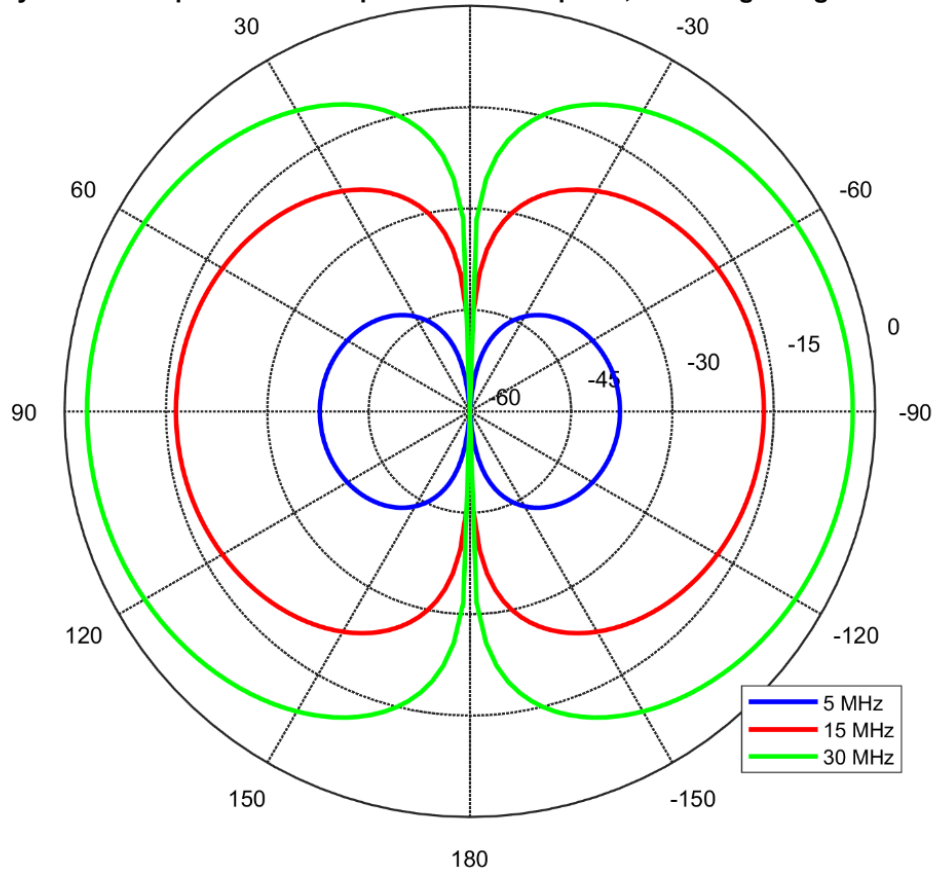
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ELEVATION PATTERN:

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



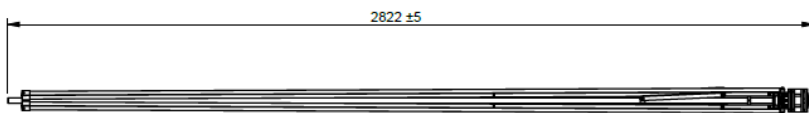
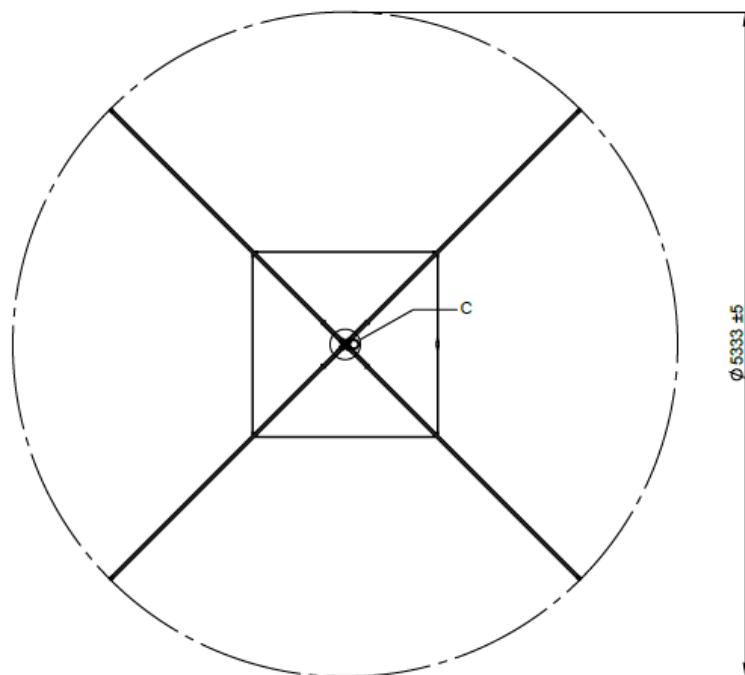
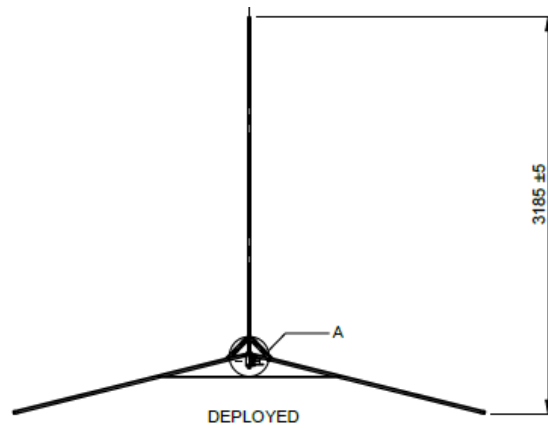
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MECHANICAL OUTLINE:



COLLAPSED

