

Wideband High-Power Antenna

400 – 3000 MHz

Product Code: MONO-A0021

VERSION: 3.3

SPECIFICATIONS:



Electrical:	
Frequency range	400 – 3000 MHz
VSWR	< 2.5:1
Nominal input impedance	50 Ω
Radiation pattern	Monopole, omni-directional in azimuth
Connector	N-type female
Feed power handling	200 W
Gain on horizon	0 dBi typical, -1.5 dBi min
Polarisation	Linear, vertical
Groundplane	Required
Mechanical:	
Dimensions (d x h)	245 mm x 185 mm
Total mass	1.25 kg
Mounting method	4 off M10 SS bolts
Groundplane requirement	Flat on vehicle top, 1 m ² clear area
Environmental: designed to meet the following specifications	
Wind survival on vehicle	160 km/h
Temperature range	-40 °C (no icing) to +75 °C
Water and dust resistance	IP 67

PRODUCT FEATURES:

- Wide bandwidth covered in a single antenna
- Low VSWR
- High feed power handling
- Passive construction
- No lossy components used for matching
- Full-gain antenna across the frequency band

APPLICATIONS:

- High-power applications
- Dual or tri-band GSM communications
- Wideband monitoring

This antenna can be customised for different frequency ranges or greater power handling if required.

PRODUCT DESCRIPTION:

The MONO-A0021 is a wideband, high-powered, monopole antenna that has been designed to cover the full frequency band of 400 MHz to 3000 MHz with high efficiency. The antenna is housed in a small, rugged radome which is mounted onto a solid base plate. The antenna is mounted directly onto a vehicle roof or elevated groundplane via the base plate giving it a low visual profile also due to its small physical size.

There is no lossy matching network inside this antenna. It is a passive component antenna that has been designed to provide excellent gain and VSWR characteristics over the full frequency band with maximum radiation and efficiency, especially for high-powered transmissions.

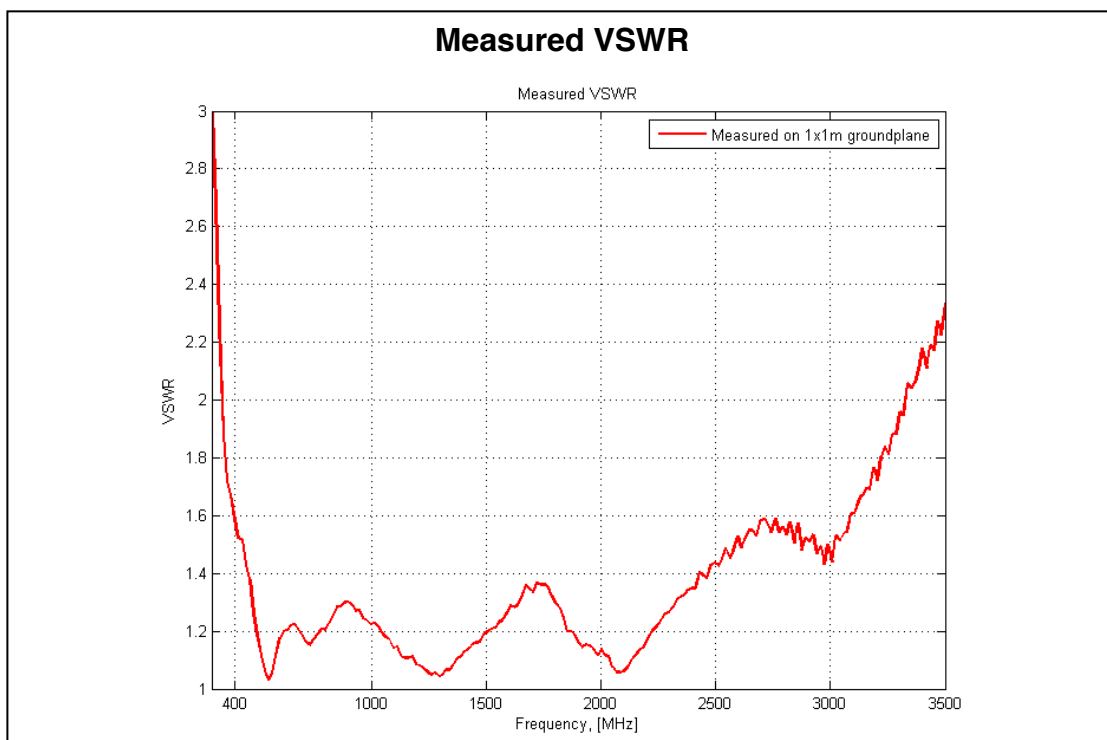
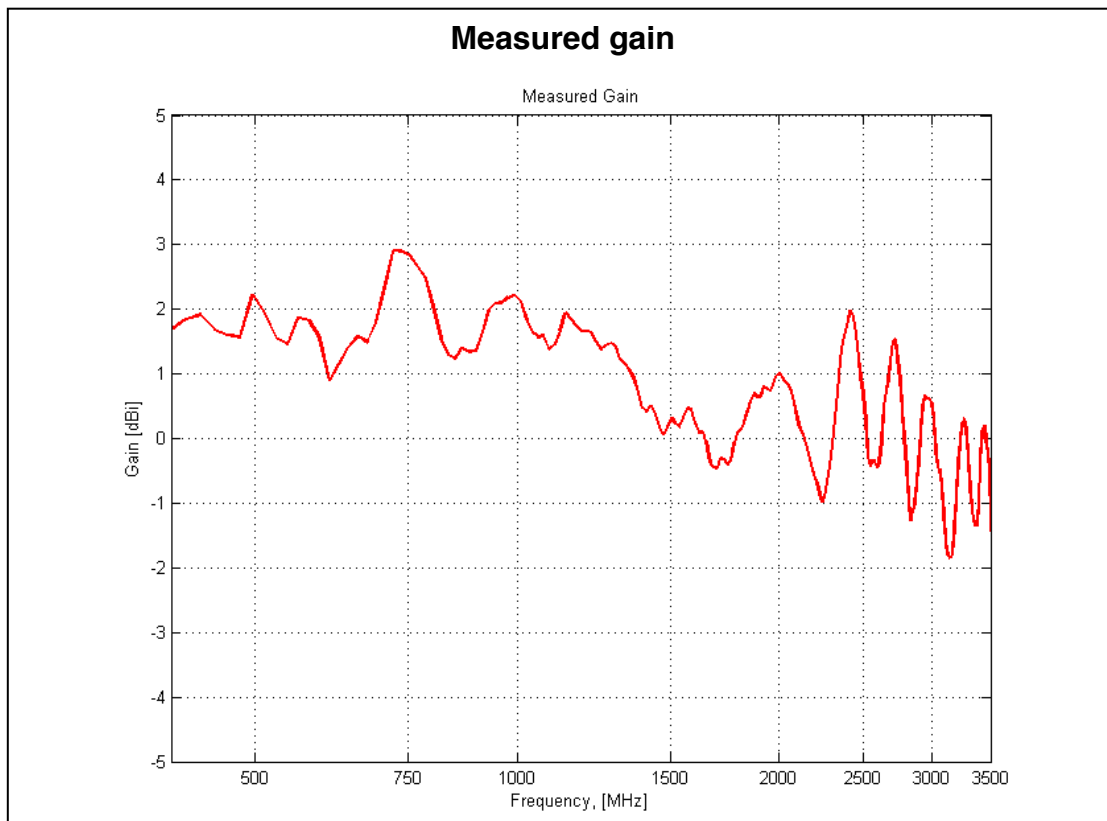
The typical characteristic design and performance of this antenna makes it usable for reception over the full frequency band as well as lower frequencies than specified also with reasonable gain.

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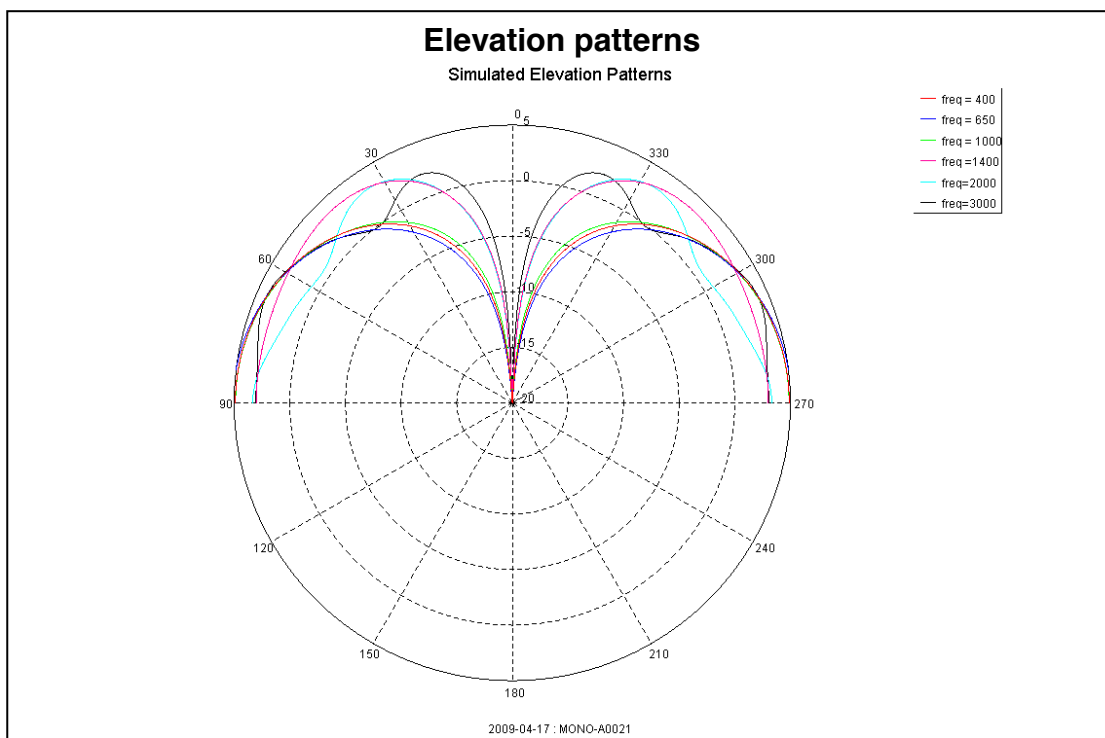
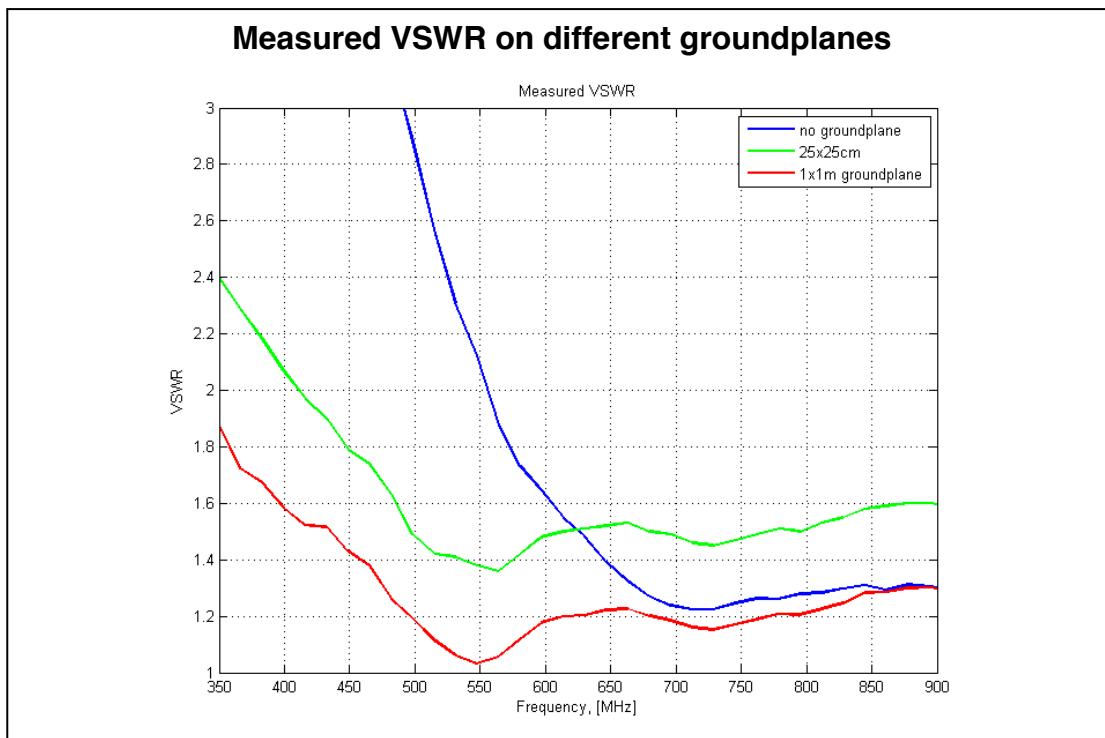
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