

# High Gain High-Power / Communications Antenna

800 MHz – 3 GHz

Product Code: GRID-A0004-02



## SPECIFICATIONS:

<b>Electrical:</b>	
Frequency range	800 MHz – 3 GHz
VSWR	< 2.5:1
Nominal input impedance	50 $\Omega$
Connector	N-type female
Feed power handling	100 W
Gain (max over the band)	21.5 dBi (see graph)
Gain (min over the band)	9.5 dBi (see graph)
E-plane 3 dB beamwidth	< 25°
H-plane 3 dB beamwidth	< 20°
<b>Mechanical:</b>	
Dimensions (w x h x l)	910 mm x 710 mm x 450 mm
Weight	6 kg
<b>Environmental: designed to meet the following specifications</b>	
Wind survival	160 km/h
Temperature (operational)	-30 °C to +70 °C
Vibration	MIL-STD-820F type 1
Shock	20 G for 10 ms
Thermal shock	-31 °C to +71 °C: 10 cycles
Water ingress rating	MIL-STD-820F (506.4)

## PRODUCT FEATURES:

- Wideband
- 100 W continuous power handling
- Reduced wind loading
- Gain 17 dBi average over the operating band
- High directivity

## PRODUCT DESCRIPTION:

The GRID-A0004-02 is a high gain reflector antenna that has been designed for transmitters used to suppress radio-controlled improvised explosive devices (RCIEDs) signals and convoy protection.

Polarisation is adjustable between vertical and horizontal via the mounting bracket.

## APPLICATIONS:

- High-power radio controlled improvised explosive devices (RCIED)
- Stand-off ordinance disposal

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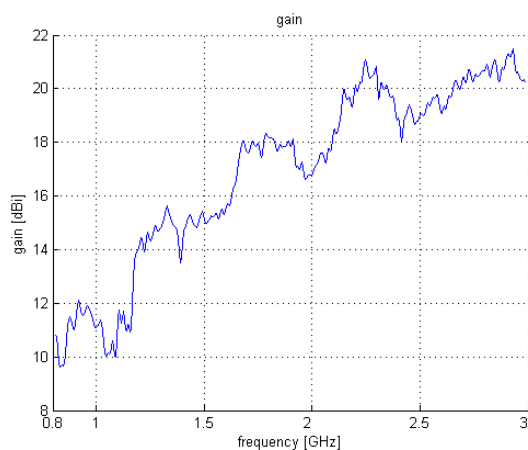
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VERSION: 2.4

## GAIN AND VSWR GRAPHS:

### SIMULATED GAIN (dBi in free space):



### VSWR:

