

# HF Inverted V Dipole Antenna

1.5 – 30 MHz

Product Code: DIPL-A0056

VERSION: 3.5



Antenna mounted on 10 m mast

## ELECTRICAL FEATURES:

- High-power handling
- Efficiency greater than 25% over 75% of the band
- Wideband without requiring ATU
- Omni-directional

## MECHANICAL FEATURES:

- Rugged
- Quick erection time
- Compact packaging

## SPECIFICATIONS:

<b>Electrical:</b>	
Frequency range	1.5 – 30 MHz
VSWR	< 2.5:1 over 90% of band (See graph)
Nominal input impedance	50 $\Omega$
Efficiency	> 25% over 75% of the band
Connector	N-type female
Feed power handling	1000 W CW
Polarisation	Linear
<b>Mechanical:</b>	
Dimensions deployed (l x h x w)	90 m x 10 m x 10 m (Height depends on mast)
Dimensions on reel	550 mm x 660 mm x 660 mm
Weight of antenna alone	17 kg
Material	Stainless steel wire
<b>Environmental: designed to meet the following specifications</b>	
Wind survival	160 km/h
Temperature range	-30 °C to +70 °C
Shock and vibration	MIL-STD-810F

## PRODUCT DESCRIPTION:

The DIPL-A0056 is a wideband inverted-V dipole antenna that operates over the 1.5 to 30 MHz band with a VSWR of less than 2.5:1 over 90% of the band.

This antenna gives a superior radiation pattern for near vertical incidence sky wave (NVIS) and short distance HF jamming and communications.

The antenna requires either a 10 m or 12 m fibreglass sectioned mast with guy ropes. This can be supplied as an optional extra.

Included with the antenna is a storage drum which allows for the quick and efficient stowage of the antenna with its feed box and distributed loads.

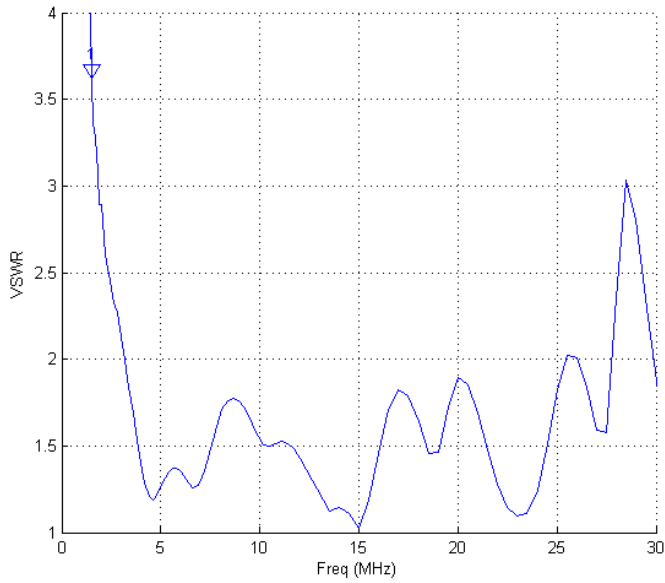
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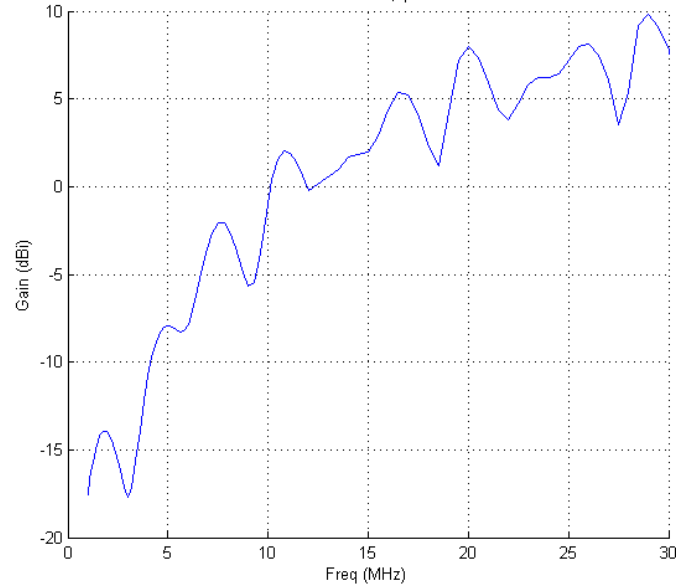
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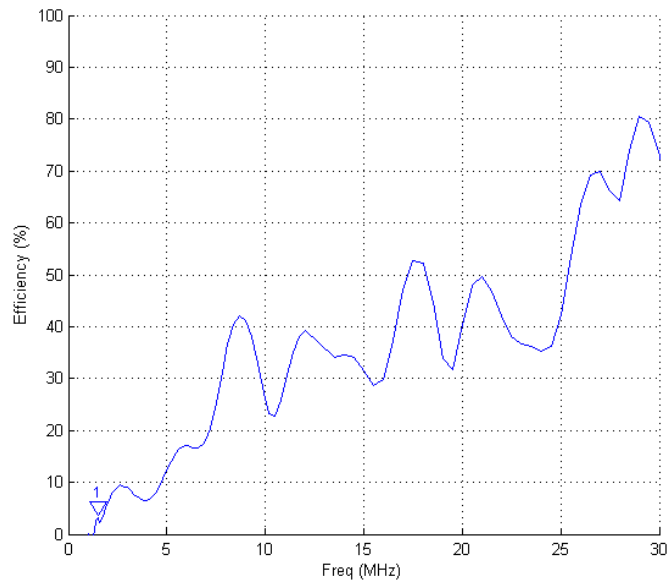
**VSWR:**



**GAIN:**



**EFFICIENCY:**



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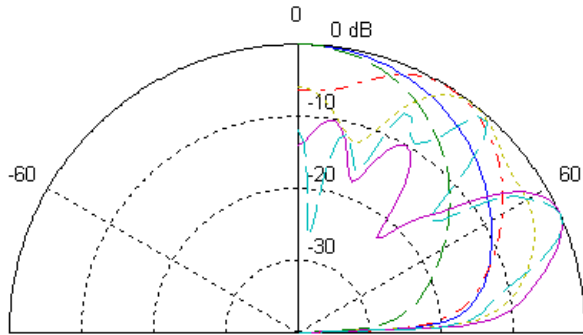
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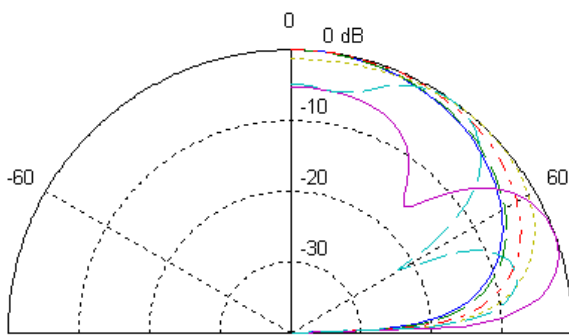
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RADIATION PATTERNS (over real ground):

ELEVATION PATTERNS (along the wire):



ELEVATION PATTERNS (across the wire):



AZIMUTH PATTERNS:

