

# Wideband VHF/UHF Vehicle Antenna

100 – 600 MHz

Product Code: MONO-A0066

VERSION: 2.5

## SPECIFICATIONS:

<b>Product codes:</b>	
MONO-A0066	N-type female connector
MONO-A0066-03	4.3-10 female connector
<b>Electrical:</b>	
Frequency range	100 – 600 MHz
VSWR	< 2.5:1
Nominal input impedance	50 Ω
Feed power handling	200 W
Connector:	
MONO-A0066	N-type female
MONO-A0066-03	4.3-10 female
Gain:	0 dBi (±2 dB) typical
(on horizon over large ground plane):	See graph
E-plane 3 dB beamwidth	40° (± 10°)
Polarisation	Vertical
<b>Mechanical:</b>	
Height	500 mm ± 5 mm
Diameter	Base 135 mm, radiator 250 mm
Weight	2.5 kg
Mounting base	NATO 4 and 6 hole flange
<b>Environmental: designed to meet the following specifications</b>	
Wind survival	160 km/h
Temperature (operational)	- 30 °C to + 51 °C
Temperature (storage)	- 30 °C to + 71 °C
Vibration (ground transportation)	MIL-STD-810E, Method 514.5, cat 1
Vibration (operational)	MIL-STD-617-1, type 1
Water ingress rating	MIL-STD-820F (506.4) IP 65



## PRODUCT FEATURES:

- Wide frequency coverage (100 to 600 MHz)
- High-power, 200 W at 100% duty cycle
- Excellent VSWR
- Omni-directional azimuth pattern
- Rugged and hard-wearing
- Suited to low-profile applications

## APPLICATIONS:

- RCIED suppression (force protection)
- Communications interception

## PRODUCT DESCRIPTION:

The MONO-A0066 is a high-power wideband antenna designed for high-power applications in the 100 to 600 MHz frequency band and recently upgraded for high-power handling and improved gain.

This omni-directional antenna has an excellent radiation pattern, no pattern break-up, and a consistently low VSWR across the entire frequency band. It can handle full rated power continuously at all frequencies, making it ideal for all 100% duty-cycle applications. The stainless-steel radiators are equipped with spring mountings to allow whip-action and resistance to impacts and obstructions.

The antenna may be used at frequencies as low as 80 MHz if a higher VSWR and lower gain can be tolerated.

The antenna is designed for direct mounting to ground platform with aid of grounding strap provided.

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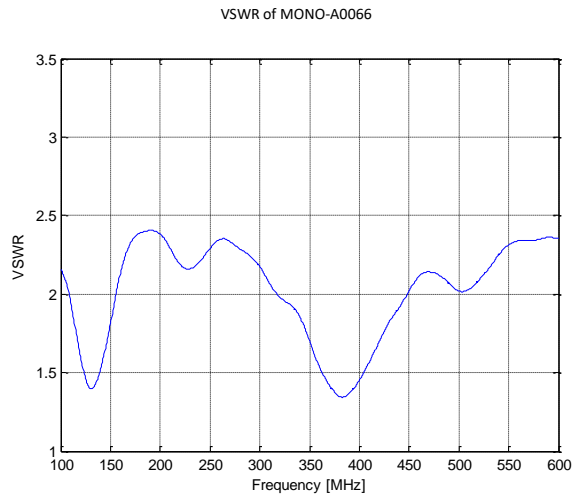
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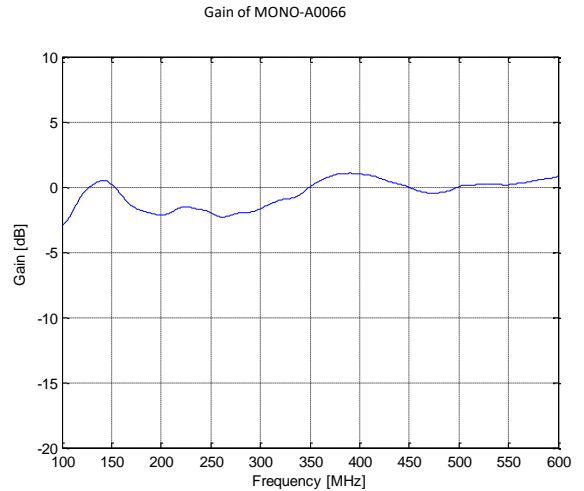
## VSWR AND GAIN GRAPHS:

### VSWR\*:



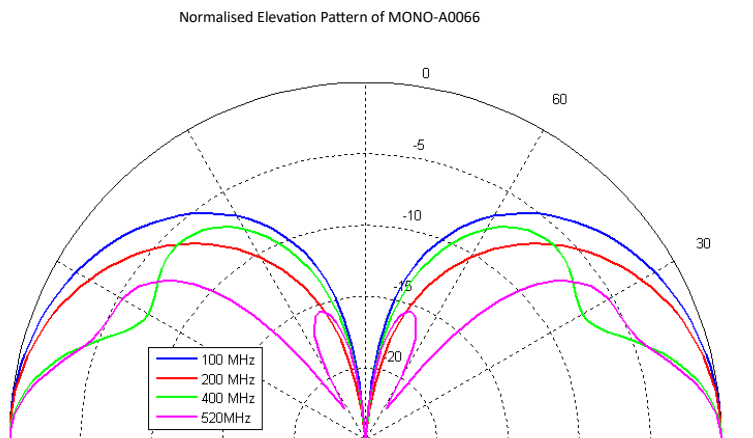
\*Measured on groundplane 5000 mm x 2500 mm

### Gain\*\*:



\*\*On horizon, on a typical vehicular groundplane

## ELEVATION PATTERNS\*\*\*:



\*\*\*On infinite groundplane