

Manpack VHF High-Power Antenna

20 – 500 MHz

Product Code: OMNI-A0180

VERSION: 1.11



SPECIFICATIONS:

Product code:	
OMNI-A0180	N-type (M) connector
OMNI-A0180-01	7/16 (M) connector
Electrical:	
Frequency range	20 – 500 MHz
Gain	See graph
VSWR	< 2.5:1 (typically)
Nominal impedance	50 Ω
Azimuth pattern	Omni-directional
Elevation pattern	Monopole pattern
Power handling:	
20 – 50 MHz	30 W CW
50 – 500 MHz	50 W CW
Groundplane requirements	Groundplane dependent; Minimum 200 mm x 200 mm x 400 mm, manpack recommended
Mechanical:	
Dimensions (l x d)	< 840 mm x 35 mm
Total mass:	
OMNI-A0180	0.55 kg
OMNI-A0180-01	0.6 kg
Mounting	On connector at base
Colour	Black, others on request
Environmental: designed to meet the following specifications	
Temperature range	Storage: -30 °C to +70 °C Operation -30 °C to +55 °C
Weatherproofing	IP 66 rain resistant (when mounted on a connector)
Shock and vibration	MIL-STD-810E 516.4: vibration category 8, shock 40 g
Corrosion	Appropriate anti-corrosion measures are taken in the design of antenna for harsh environmental conditions
Exposed materials	Aluminium, stainless steel, fibreglass

PRODUCT FEATURES:

- High efficiency VHF antenna
- Proven flexible base spring protects the antenna

APPLICATION AREAS:

- Manpack high-power systems
- Wideband monitoring
- Man-carried force protection
- Carry-forward high-power solutions

PRODUCT OVERVIEW:

The OMNI-A0180 wideband manpack antenna covers the full VHF band with some extension to 20 MHz and 520 MHz. It is mounted on either an N-type or 7/16 connector base, a spring for shock absorption and flexibility, and a glass-fibre tube containing the radiator.

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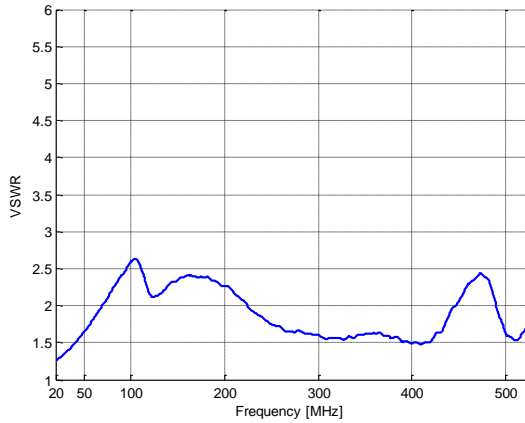
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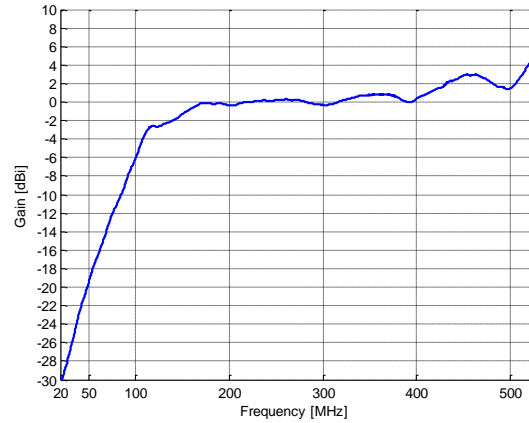
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VSWR AND GAIN GRAPHS:

Typical VSWR:



GAIN:



Radiation patterns:

ELEVATION:

