Manpack VHF High-Power Antenna

20 – 500 MHz

VERSION: 1.2

Product Code: OMNI-A0217

SPECIFICATIONS:

Product code:	
OMNI-A0217	N-type (M) connector
OMNI-A0217-01	7/16 (M) connector
Electrical:	
Frequency range	20 – 500 MHz
Gain	See graph
VSWR	< 3:1, typical 2.5:1
Nominal impedance	50 Ω
Power handling	30 W CW
DC resistance	Short circuit
Groundplane requirements	Groundplane dependent; Minimum 400 mm x 200 mm x 500 mm manpack recommended
Mechanical:	
Dimensions of whip (l x d)	1500 mm x 35 mm max
Total mass	0.7 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
Weatherproofing	IP66 rain resistant (when mounted on a connector)
Shock and vibration	MIL-STD-810E 516.4: vibration category 8, shock 40 g
Exposed materials	Painted aluminium and stainless steel. Fibreglass

PRODUCT FEATURES:

- High efficiency VHF antenna
- Full-band coverage, takes the place of two regular high-power antennas
- Proven flexible base spring protects the antenna

APPLICATION AREAS:

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

PRODUCT DESCRIPTION:

This wideband manpack antenna covers the full VHF band with some extension to 20 MHz and 500 MHz. It is mounted on either an N-type or 7/16 connector base and is spring loaded for flexibility. By covering the full VHF band in one antenna, it replaces two conventional high-power antennas, reducing clutter and visual signature on the manpack system.

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www.alarisantennas.com

Alaris Antennas has a policy of continuous improvement and hence specifications may change without notice

GAIN THE ADVANTAGE

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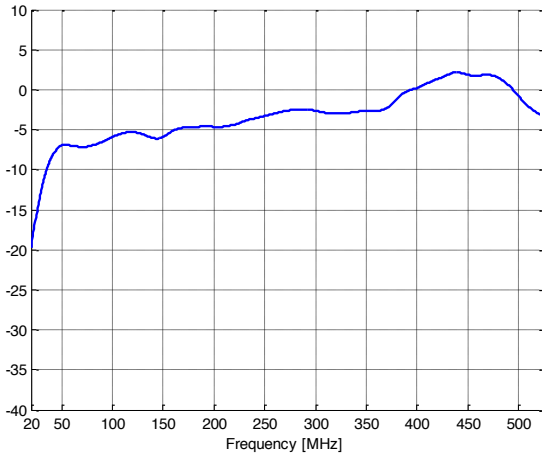
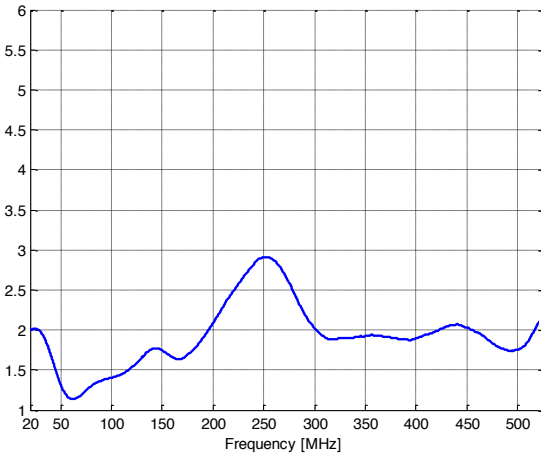
GAIN AND VSWR GRAPHS:

GAIN:

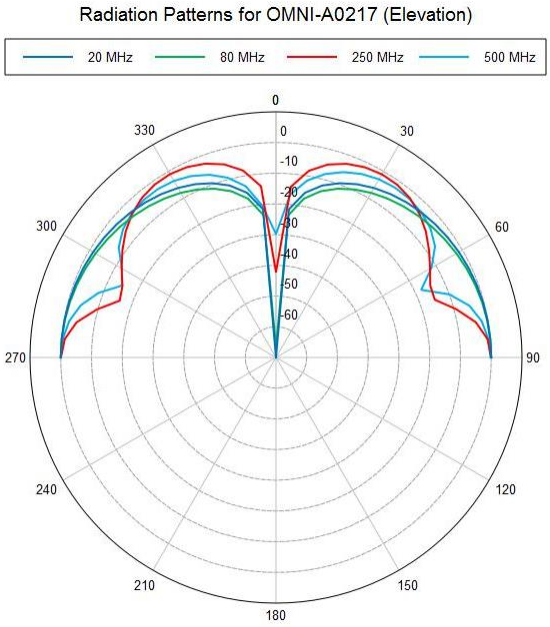


VSWR:



Radiation patterns:

E-PLANE PATTERN:



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