3506-100

CHELTON

Ultra Wideband Manpack Antenna

The 3506-100 Ultra Wideband Manpack Antenna is suitable for software defined (SDR) radios for use in a network centric environment over the 1000 MHz - 2500 MHz frequency band.

The antenna is a dipole design which means that it will operate efficiently without the need for a groundplane. The **3506-100** has a rigid tubular radome that covers the radiating element. This is supported by a flexible gooseneck that is terminated by a male N type connector.

The gooseneck allows the antenna to deflect under impact without causing damage to the antenna or radio. It can also be angled to ensure that the antenna is vertical when the user is in the prone position. Manufactured from stainless steel and glass reinforced plastic, the antenna is fully ruggedised for military use.

MECHANICAL

Height	0.43m
Weight	< 0.45kg
Mounting Configuration	Directly to radio bulkhead connector/ interface

ELECTRICAL

Frequency Range	1000 MHz - 2500 MHz
Gain	0 dBi (typically)
Polarisation	Vertical when mounted vertically
Radiation Pattern	Essentially omnidirectional in azimuth
Power Rating	30W CW (maximum)
Impedance	50 Ohm (nominal)
VSWR	≤ 3.0:1
Connector	N Type Male

ENVIRONMENTAL

High Temperature	MIL-STD-810F, Method 501.4, Procedures I and II Procedure II -Operational: +50°C Procedure I -Storage: +50°C
Low Temperature	MIL-STD-810F, Method 502.4, Procedures I and II Procedure II -Operational: -30°C Procedure I -Storage:- 40°C
Humidity	MIL-STD-810E, Method 507.3, Procedure III 95%
Vibration	MIL-STD-810F, Method 516.5, Procedure I Ground mobile
Shock (Operational)	MIL-STD-810E, Method 514.4, Category 8 Functional ground equipment

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