3510-100

CHELTON

Wideband Manpack Antenna

The 3510-100 Wideband Manpack Antenna is suitable for software defined (SDR) radios for use in a network centric environment over the 500 MHz - 2500 MHz frequency band.

This type of antenna is frequently utilised on the new generation of portable jammers for neutralising improvised explosive devices (IED).

The antenna is of dipole design which means that it will operate efficiently without the need for a groundplane. The 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.

Environmental

High Temperature	MIL-STD-810F, Method 501.4, Procedures I and II	
	Procedure II -Operational:	+70ºC
	Procedure I -Storage:	+85ºC
Low Temperature	MIL-STD-810F, Method 502.4, Procedures I and II	
	Procedure II -Operational:	-40ºC
	Procedure I -Storage:	-55ºC
Humidity	MIL-STD-810E, Method 507.3, Procedure III 95%	

ELECTRICAL

Frequency Range	500 MHz - 2500 MHz
Gain	-2 dBi (typical) -6 dBi (minimum)
Polarisation	Vertical when mounted vertically
Radiation Pattern	Essentially omnidirectional in azimuth
Power Rating	20W CW (maximum)
Impedance	50 ohm (nominal)
VSWR	≤ 2.5:1
Connector	N Type Male

MECHANICAL

Height	0.43m
Weight	0.5kg
Mounting Configuration	Directly to radio bulkhead connector/ interface

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