5000-9010

CHELTON

TacSAT Antenna (UFO and MUOS)

The 5000-9010 is a UHF, tactical satellite (TacSAT) antenna that operates over:

- Legacy UFO (UHF Follow-On) satellite frequencies 244 MHz to 318 MHz
- MUOS (Mobile User Objective System) satellite band 300 MHz to 380 MHz

This TacSAT antenna is designed for use on land vehicles, and can function effectively with or without a groundplane.

The **5000-9010** comprises an aluminium alloy baseplate fitted with blind mounting fasteners. A composite radome is fitted to the baseplate. The RF connector is mounted on the side of the radome and is partially protected.

ELECTRICAL

Frequency	244 MHz - 380 MHz	
Gain	≥ +4 dBiC at zenith (typical +6 dBiC)	
Polarisation	Predominantly right hand circular at zenith	
Power Rating	200 W CW (maximum)	
Impedance	50 ohm (nominal)	
VSWR	< 2.0:1	
Radiation Pattern	Maximum radiation essentially orthogonal to the plane of the antenna	
Connector	N Type Female	

MECHANICAL

Height	260 mm (maximum) (not including connector)
Diameter	345 mm (maximum))
Weight	3.0 kg (maximum)
Mounting	4 holes fixed location



ENVIRONMENTAL SPECIFICATION

High Temperature	MIL-STD-810F, Method 501.4, Procedures I and II			
	Operational:	+71°C		
	Storage:	+71°C		
Low Temperature	MIL-STD-810F, Method 502.4, Procedures I and II			
	Operational:	-40°C		
	Storage:	-40°C		
Solar Radiation (Sunshine)	MIL-STD-810F, Method 505.4, Cycle A1 modified			
		Watt/metre² solar radiation urface of the antenna		
Salt Fog	MIL-STD-810F, Method 509.4			
Sand and Dust	MIL-STD-810F, Method 510.4, Procedures I and II			
Immersion	MIL-STD-810F, Method 512.4			
	Conditioning Temperature option a(1), immersion at a depth of 1 metre, for a period of 2 hours			
	MIL-STD-810F, Method 514.5, Category 4, Procedure I modified			
Vibration				
Vibration	Procedure I mod	ified ler test, duration 64		
Vibration	Procedure I mod Two wheeled tra minutes (64 mile	ified ler test, duration 64		
	Procedure I mod Two wheeled tra minutes (64 mile MIL-STD-810E, M	ified ller test, duration 64 s) per axis		

The Chelton Centre, Fourth Avenue, Marlow,

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