



### GENERAL DESCRIPTION AND APPLICATION

VHF/UHF Dual Band Center-Fed antenna particularly designed for vehicles without ground plane:  
works in E/R without tuning in the whole band 30-88MHz and 2.4-2.5GHz  
protected against EMP threat and compatible with all VHF hopping combat radios

### ELECTRICAL SPECIFICATION

Description	VHF	UHF
Frequency	30-88 MHz	2400-2500 MHz
Polarisation	Vertical	Vertical
VSWR	≤ 3.5:1	≤ 2:1
Impedance	50 Ω	50 Ω
Power	70 W	500 mW
Gain	≥ -8 to -4 dBd	≥ -2 dBd
High Voltage Protection	1500Vrms (MIL-STD-202, METHOD 301)	
Isolation Between Ports	≥ 30 dB (both bands)	

### MECHANICAL SPECIFICATION

Description	VHF
Length (overall)	3550 mm
Length (below mounting flange)	100 mm
Weight	5 kg
Whip Length (longest)	1600 mm

Test	Severity	MIL-STD-810E, Method (M) & Procedure (P)
<b><u>ENVIRONMENTAL CHARACTERISTICS</u></b>		
Minimal temperature for operation	-40°C during 16 hours	M502.3, P II
Minimal temperature for storage	-40°C during 72 hours	M502.3, P I
High dry temperature for operation	+55°C during 16 hours	M501.3, P II
High dry temperature for storage	+71°C during 96 hours	M501.3, P I
High wet temperature for operation	+41°C at 95% HR (1 cycle 16 hours)	M507.3, P II
High wet temperature for storage	+41°C at 95% HR (10 cycles 16 hours)	M507.3, P II
Salt fog	48 hours at 35°C	M509.3, P I
Altitude (operation)	-40°C, 10,000 feet, 6 hours	M500.3, P II
Air transport	-40°C, 190 hPa, 2 hours	M500.3, P I
Solar radiation	168 hours at Xenotest	M505.3, P II
Rainfall	500 ±100mm/h, 30mn	M506.3, P III
Immersion	Depth 1m, 2 hours	M512.3, P I
Sand and dust	Wind speed 17.8m/s, Dust 10.6g/m <sup>3</sup> , Sand 1.1g/m <sup>3</sup>	M510.3, P I and II
Ice, condensation, unfreezing	0.5 inches radial ice	M521.1, P I
<b><u>MECHANICAL CHARACTERISTICS</u></b>		
Vibrations	3h/axis	M514.4
Mechanical chocks	3 shocks in both directions, 30g/11ms	M516.4, P I
Impact	25 repeated blows at 40km/h at half height	

## **VEHICLE INSTALLATION**



