

VT-3B

- BROADBAND
- TRANSPORTABLE
- QUICK ERECT
- OMNIDIRECTIONAL

SPECIFICATIONS			
RF CHARACTERISTICS			
Frequency Range	30 to 88 MHz	<p>VT-3 ANTENNA ELEVATION PATTERN Frequency = 80 MHz Scale in dB</p>	
VSWR	3:1 maximum		
Impedance	50 Ohms unbalanced		
Power	250 watts avg, 500 watts peak		
Polarization	Vertical		
Gain	1 dBi minimum		
Patterns			
Azimuth	Omnidirectional ±1 dB		
Elevation	Similar to Dipole		
ENVIRONMENTAL CHARACTERISTICS			
Wind	86 mph (75 knots), operational 115 mph (100 knots), survival	<p>VT-3 ANTENNA ELEVATION PATTERN Frequency = 90 MHz Scale in dB DIELECTRIC CONSTANT = 10 CONDUCTIVITY = 0.01 SIEMENS</p>	
Snow	4-5 lbs/ft ² (22 kg/m ²)		
Salt Fog	MIL STD 810, Method 509.2		
Altitude			
Operation	12,000 ft		
Storage	40,000 ft		
Fungus	MIL STD 454, Requirement 4		
Vibration (Stowed)	MIL STD 810, Procedure I		
Shock (Stowed)	30 g, 33 ms, 1/2 sine		
Sand and Dust	MIL STD 810, Method 510.2, Procedures I & II		
Rain	4 in/hr, 40 mph winds	<p>VT-3 ANTENNA ELEVATION PATTERN Frequency = 90 MHz Scale in dB DIELECTRIC CONSTANT = 10 CONDUCTIVITY = 0.01 SIEMENS</p>	
Humidity	MIL STD 810, Method 507.2, Procedure III		
Temperature			
Operation	-54°C to +65°C		
Storage	-62°C to +71°C		
Solar Loading	360 BTU/hr per ft ² at +65°C		
MECHANICAL CHARACTERISTICS			
Deployed Size			<p>VT-3 ANTENNA ELEVATION PATTERN Frequency = 88 MHz Scale in dB DIELECTRIC CONSTANT = 10 CONDUCTIVITY = 0.01 SIEMENS</p>
Shelter Mount	1.2 ft x 1.2 ft x 15.83 ft high		
Ground Mount	32 ft dia x 21.83 ft high		
Stowed Size (Antenna only)	14.2 ft ³ (1.2 ft x 1.2 ft x 9.83 ft)		
Weight	36 lbs		
Antenna			
Ground Mount Kit (Optional)	30 lbs		
(Pedestal, guys, anchors, ground rod and ground strap)			
Finish	Per MIL P 53039, Green 383, CARC		
Installation Time	2 persons less than 10 min (excluding anchors)		