

PRODUCT DESCRIPTION

Product Number	RDB2020
NSN	Not Assigned
Market	Military - Land

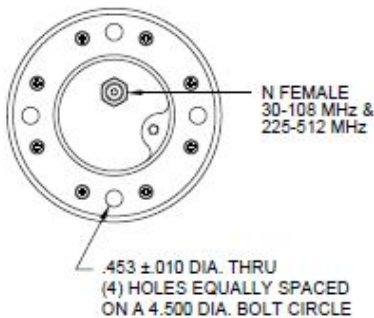
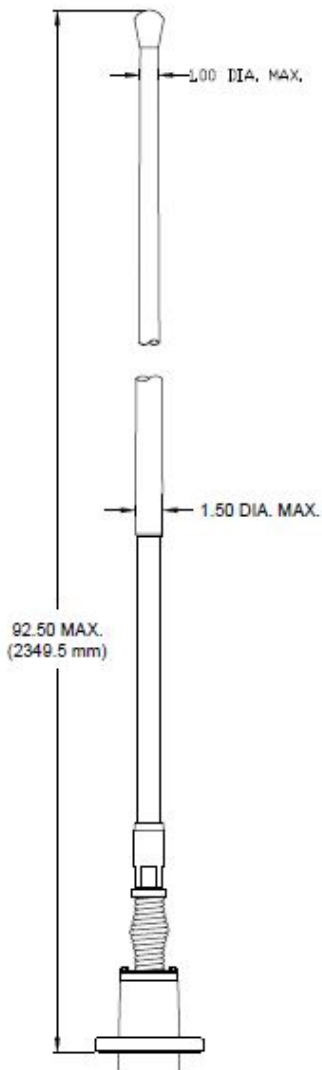
This is a ruggedized multiband vehicular antenna which significantly reduces the number of antennas on the vehicle. Multiple frequency inputs may be used simultaneously. This antenna utilizes a fiberglass housing that is fully "oak beam" compliant and is designed with a flexible spring that is rigid but still can be tied down to a 90-degree bend for storage or during transit. The antenna also has lightning protection internally integrated in order to protect the radio system from seeing the charge.

ELECTRICAL SPECIFICATIONS

Antenna Class	VHF: Dipole UHF: Integrated Dipole
Frequency	30-108 MHz 225-512 MHz
Impedance	50 Ohms Nominal
VSWR	3:1 Max
Polarization	Vertical
Pattern	Omni-Directional
RF Power Handling	VHF: 75 Watts CW UHF: 75 Watts CW
Peak Gain at Horizon	<b>30-108 MHz:</b> -6.0 to -1.0 dBi (on a 10'x10' ground plane) -10 to -1.0 dBi (no ground plane) <b>225-450 MHz:</b> -1.0 to +2.0 dBi <b>450-512 MHz:</b> -3.0 to +1.0 dBi -1 to +2.0 dBi at +/- 15° from horizon
Clamping voltage	200 V at the antenna
Impulse Discharge	20Ka
Connector	N Female

MECHANICAL SPECIFICATIONS

Height	92.5 in. (2349.5 mm)
Max Weight	12 lbs. (5.44 kg)
Available Colors	P/N: RDB2020G CARC Green P/N: RDB2020T CARC Tan P/N: RDB2020B CARC Black
Mount Hardware Kit included with Antenna	
Tied Down Kit Sold Separately	P/N: RAMI-TDK-1



ENVIRONMENTAL SPECIFICATIONS (MIL STD-810G unless otherwise noted)

High Operating Temperature	+71 deg C Method 501.5 Proc. II
Low Operating Temperature	-40 deg C Method 502.5 Proc. II
High Temperature Storage	+71 deg C Method 501.5 Proc. I
Low Temperature Storage	-50 deg C Method 502.5 Proc. I
Temp Shock	Method 503.5 Proc. I-C
Altitude Storage	40,000 Ft Method 500.5
Humidity	Method 507.5 Proc. II
Ballistic Shock	MIL-S901D
Shock	Method 516.6 Proc. I
Vibration	Method 514.6 Proc I
Impact	25 Strikes on 4"x4" oak beam at 25 mph
Loose Cargo Transit	Method 514.6 Proc. II
Transit Drop	Method 516.6 Proc. IV
Spring Flexibility	40,000 Cycles
Salt Fog	Method 509.5
Vibration	Method 514.6 Proc. I
Immersion	Method 512.5 Proc. I
Rain	Method 506.4 Proc. II
Icing/Freezing	Method 521.3
Sand and Dust	Method 510.5 Proc. I
Solar Radiation	Method 505.5 Proc. I
Fungus	Method 508.6

RAMI-TDK-1

Tie down kit includes a 10 ft rope and a steel clip.

