

(Ø25 4mm)

Ø1.50 MAX. (Ø38.1mm)

GPS UNIT

LOCATION

SMA FEMALE

GPS

4X Ø.453 ±.010 THRU EQUALLY SPACED ON A

Ø4.500 BOLT CIRCLE

0

93.25 MAX. (236.9cm)

RDB2020-GPS

LOUD AND CLEAR

PRODUCT DESCRIPTION

Product Number RDB2020-GPS
NSN Not Assigned
Market Military - Land

This is a ruggedized multiband vehicular antenna which significantly reduces the number of antennas on the vehicle. The antenna operates with legacy radios for SINCGARS and EPLRS. Multiple frequency inputs may be used simultaneously. This version of the antenna includes an active GPS antenna element integral to the matching base unit. This antenna is fully "oak beam" compliant and can be tied down to a 90 degree bend for storage or during transit.

ELECTRICAL SPECIFICATIONS

Antenna Class VHF: Dipole

UHF: Integrated Dipole

GPS Navigation

Frequency 30-108 MHz and 225-512 MHz

1575 ±2 MHz (GPS)

Impedance 50 Ohms Nominal VSWR 3:1 Maximum

1.5:1 Maximum (GPS)

Polarization Vertical

Right Hand Circular (GPS)

Pattern Omni-Directional
RF Power Handling VHF: 75 Watts CW

UHF: 75 Watts CW

Peak Gain at Horizon **30-108 MHz**: -6 to -1.0 dBi

(on a 10'x10' ground plane)

-10 to -1.0 dBi (no ground plane) 225-450 MHz: -1.0 to +2.0 dBi 450-512 MHz: -3.0 to +1.0 dBi

-1 to +2.0 dBi at +/- 15° from horizon

GPS: 28 dB at 3 VDC

Clamping voltage 200 V at the antenna

Impulse Discharge 20Ka

Connector N Female

SMA Female (GPS)

MECHANICAL SPECIFICATIONS

Height 93.25 in. (236.9 cm)
Max Weight 13 lbs. (5.9 kg)

Available Colors P/N: RDB2020G-GPS CARC Green

P/N: RDB2020T-GPS CARC Tan
P/N: RDB2020B-GPS CARC Black

Mount Hardware Kit included with Antenna

Tied Down Kit Sold Separately P/N: RAMI-TDK-1



Email us at sales@RAMI.com I 616.842.9450 PHONE I 888.845.9450 TOLL FREE

N FEMALE -

225-512 MHz



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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
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.





