

20-50-12VM NSN 5985-99-483-7582 JTRS Antenna 30 to 512 MHz

### **FEATURES**

- Very wide frequency coverage
- No tuning required
- Rugged construction for mobile applications
- Low silhouette less than 75 inches height
- Meets MIL-STD-810 environment
- 100 Watts power handling
- Detachable top element for transport and stowage
- Spring mounted element

The 20-50-12VM is a high performance wide band multi-element antenna intended for use with the Joint Tactical Radio System (JTRS) and similar radio systems operating within the frequency band 30 - 512 MHz.

The antenna comprises a wide band monopole on a CECOM mounting plate with proprietary matching circuits that cover VHF and UHF frequency band. Decoupling techniques are employed to optimize radiation patterns throughout the entire frequency band.

Construction comprises a base element with detachable top VHF element having all matching circuits foamed-in-place to provide maximum strength and reliability.

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## **SPECIFICATIONS**

# Cooper Antennas Model 20-50-12VM NSN 5985-99-483-7582 JTRS Antenna

#### **ELECTRICAL**

Frequency: 30 to 512 MHz

Gain (typical at beam maximum):

30 MHz -3 dBi 88 MHz -1 dBi

108 – 174 MHz 0 dBi average

225 – 512 MHz 0 dBi average

VSWR (to 50 ohms):

30 - 88 MHz 3.0:1 max 118 - 174 MHz 2.5:1 max 225 - 450 MHz 2.5:1 max 451 - 512 MHz 3.0:1 max.

Impedance (nominal): 50 Ohms

Power: 100 Watts CW

Polarization: Vertical
Antenna RF Connector: N Female

Operational Temperature : -40°C to +71°C

### **MECHANICAL**

Fixings; 5.5 inches (140mm)

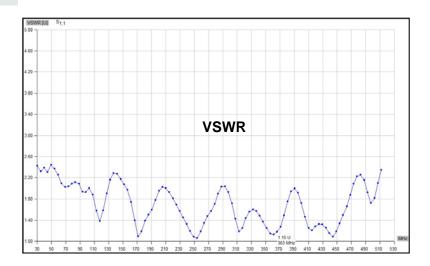
4 hole on 4.5 inch (114mm) circle to CECOM pattern

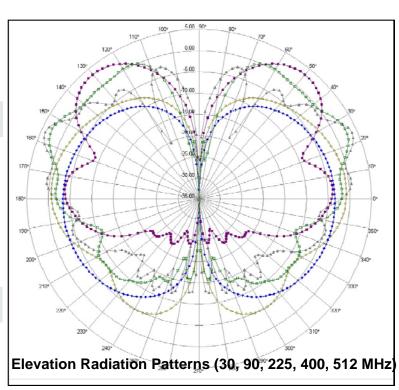
Overall height: 74.2 inches(1885mm)
Weight: 8.5 lbs (3.86Kg) max-

### **FINISH**

Urethane Desert Sand - NSN 5985-99-483-7582 Urethane Grey (F27) - NSN 5985-99-990-9095 Other finish options are available.

Please specify finish required when ordering.





Note: Cooper Antennas Ltd has a policy of continuous product improvement and data herein is therefore subject to change.

Please check with Cooper Antennas Ltd that this data sheet is at latest issue before initiating contract activity.