



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.



Cooper Antennas Ltd for non-USA customers
Thames Industrial Estate, Unit K, Fieldhouse Lane,
Buckinghamshire SL7 1TB, UK
Tel: +44 (0) 1628 482 360
Email: sales@cooperantennas.com
www.cooperantennas.com



Australian Representatives
ROJONE, PTY LTD.
Tel: 02 9829 1555
E: sales@rojone.com.au
www.rojone.com.au

SPECIFICATIONS

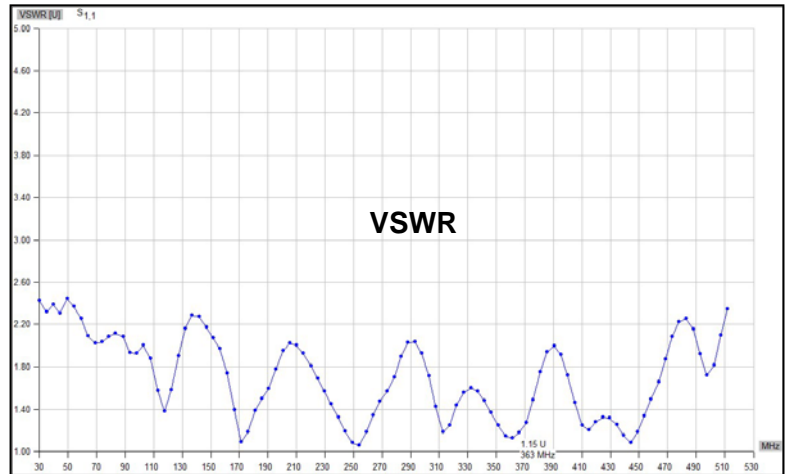
Cooper Antennas Model 20-50-12VM

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

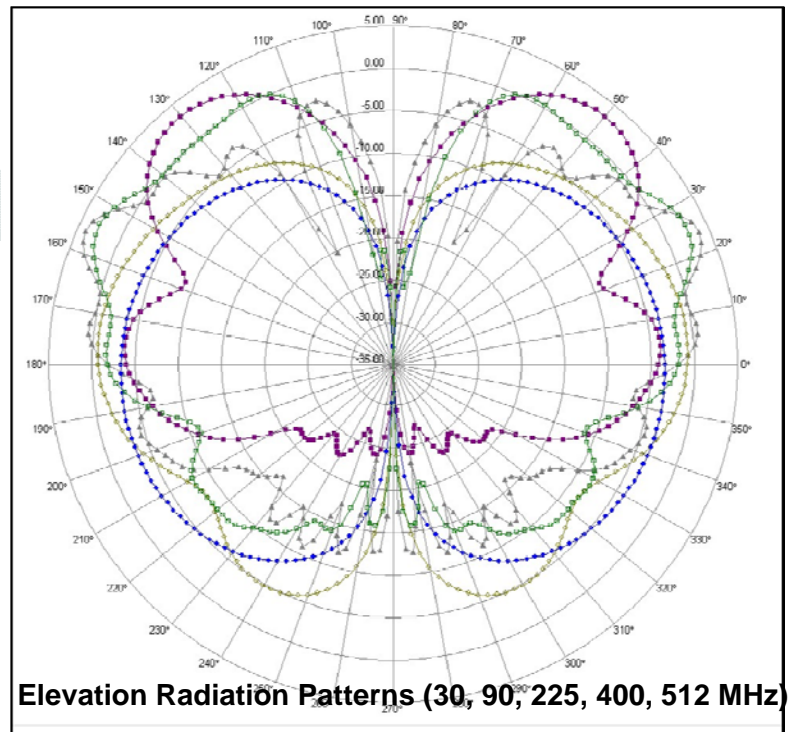


MECHANICAL

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.