



**20-50-12CM
JTRS Antenna
30 to 512 MHz**

FEATURES

- **Covers all operating portions of 30-512 MHz JTRS frequency band**
- **Efficient decoupling circuits maintain radiation pattern throughout frequency band**
- **Rugged construction for fixed applications**
- **No tuning required**
- **Meets MIL-STD-810 environment**
- **100 Watts power handling**
- **Excellent gain maintained by passive impedance matching throughout frequency band**
- **Detachable top element for stowage**
- **CECOM base**



The 20-50-12CM 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 CECOM mounted wide band monopole 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 20-50-12CM JTRS Antenna

ELECTRICAL

Frequency: 30 to 512 MHz

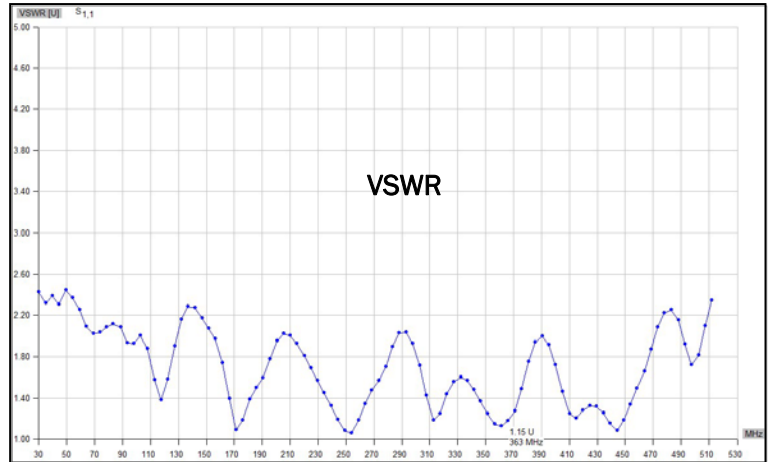
Gain (typical at beam maximum):

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

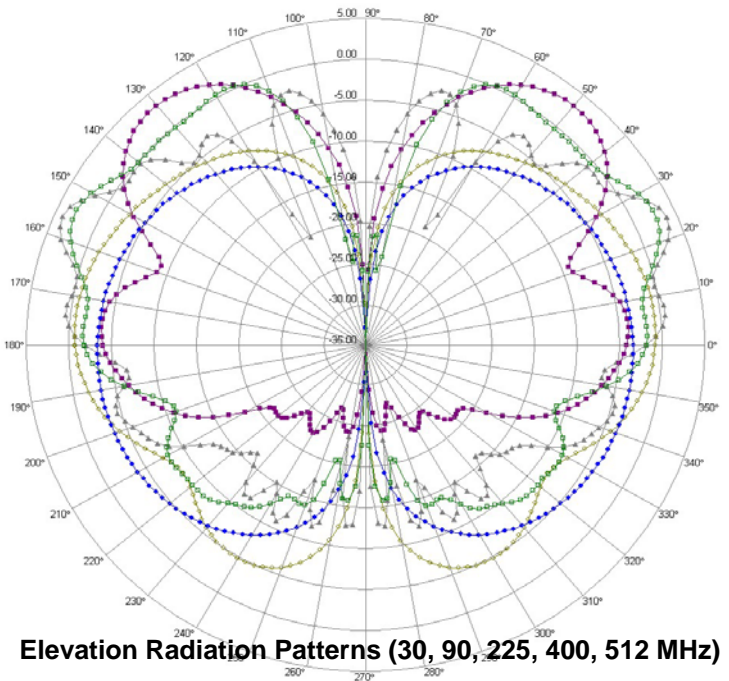


MECHANICAL

Fixings : 5.5 inches (140mm)
 4 holes on 4.5 inch (114mm)
 circle to CECOM standard
 Overall height : 73 inches (1854mm)
 Stowed Size : 41.4 inches (1052mm)
 Weight : 5.6 lbs (2.54kg)

FINISH

Urethane Lusterless Black
 Other finish options are available. Please
 specify finish required when ordering.



Elevation Radiation Patterns (30, 90, 225, 400, 512 MHz)

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.