

20-50-16 Low Profile 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
- CECOM mounted construction for base station or mobile applications.
- No tuning required
- Just 41 inches overall height
- Meets MIL-STD-810 environment
- 100 Watts power handling
- Excellent gain maintained by passive impedance matching throughout frequency band
- Detachable top element for stowage

The 20-50-16 is a high performance wide band multi-element antenna intended for use with a Joint Tactical Radio System (JTRS) operating within the frequency band 30-512 MHz.

The antenna comprises a CECOM plate mounted parasitically excited UHF sleeved monopole co -linearly stacked with a VHF whip element. Decoupling techniques are employed to minimize unwanted interaction between elements and thus maintain optimum radiation patterns throughout the entire frequency band.

Construction comprises high integrity aluminum alloy mast with detachable top VHF element and integral matching circuits. The whole assembly is foam filled to provide maximum strength and prevent the ingress of moisture.

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Cooper Antennas Ltd is Accredited to: ISO9001, AS9100, ISO14001 and MAA Approved

SPECIFICATIONS Cooper Antennas Model 20-50-16 Low Profile JTRS Antenna

Electrical Specification

Frequency :	30-512 MHz	
GAIN :		
30-88 MHz	-13 dBi to -6 dBi	
118-174 MHz	-4 dBi average	
225-512 MHz	0 dBi average	
VSWR :		
30-88 MHz	≤ 2.5:1	
118-174 MHz	≤ 3.0:1	
225-490 MHz	≤ 2.5:1	
491-512 MHz	≤ 3.0:1	
Impedance :	50 Ohms (nominal)	
Power :	100 Watts CW	
Polarization :	Linear (vertical when	
	vertically mounted)	
Antenna RF Connector : BNC Female		

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

Mechanical Specification:

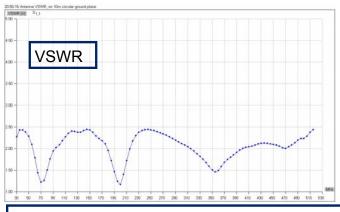
Fixings :	CECOM pattern base with four
	7/16 inch (11.1mm) dia. Holes
	on a 4.5 inch (114mm) circle
Overall height :	41 inches (1041 mm)
Weight :	5lbs (2.27kg)

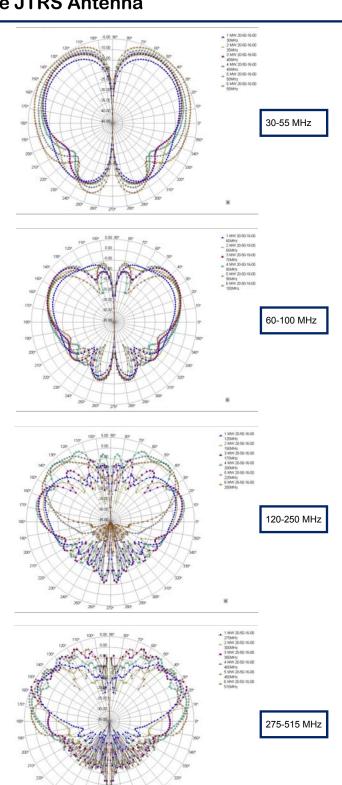
Finish Specification:

Desert Tan

Other finish options are available.

Please specify finish required when ordering.





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