

20-50-16VM JTRS Vehicle Mount 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
- Omnidirectional azimuth pattern
- CECOM mounting plate with spring for base station or mobile applications.
- No tuning required
- Only 48 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 the Joint Tactical Radio System (JTRS) and similar systems 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 monopole element. Decoupling techniques are employed to minimize unwanted interaction between elements and maintain optimum radiation patterns throughout the entire frequency band. Proprietary matching techniques are employed to maintain VSWR relatively independently of ground plane.

Construction comprises a spring mounted aluminum alloy base unit with integral matching circuits supporting a detachable aluminum alloy top element. The whole assembly is foam filled to provide maximum strength and prevent the ingress of moisture. The side-mounted BNC connector is protected by 3 high impact guard studs.

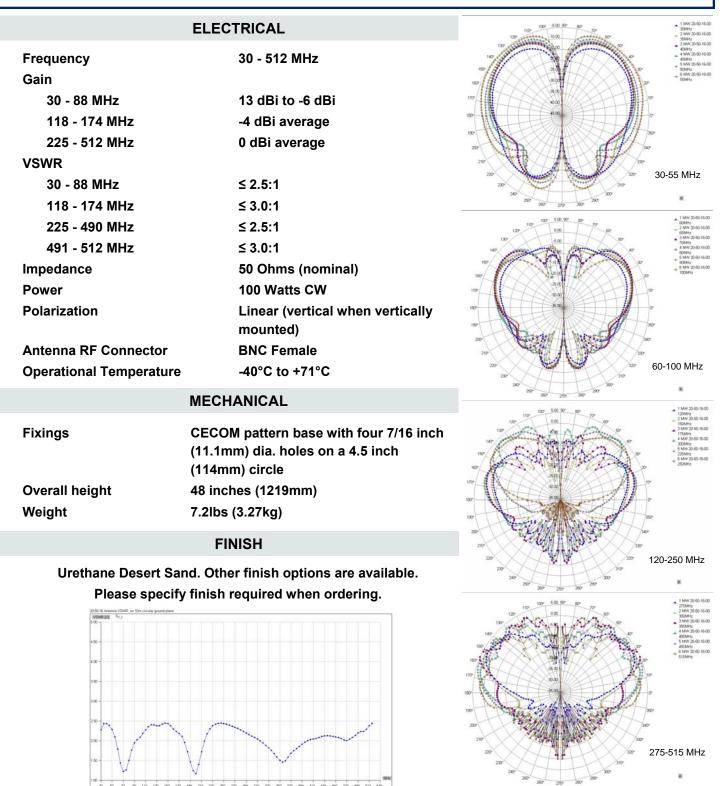
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Cooper Antennas Ltd is Accredited to: ISO9001, AS9100, ISO14001 and MAA Approved

SPECIFICATIONS Cooper Antennas Model 20-50-16VM JTRS Vehicle Mount Antenna



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