



# ANTENNA EXPERTS

E-mail: [info@antennaexperts.in](mailto:info@antennaexperts.in) Website: [www.antennaexperts.in](http://www.antennaexperts.in)

Model # JCM-415

380 – 450 MHz.

2.5 dBi. Gain

## UHF Omni-directional Fiberglass Jammer Antenna for Manpack Application

**DESIGN FEATURES:** The JCM-415 UHF Jammer manpack collinear antenna is rugged all weather model, enclosed in a ABS radome, uses high quality brass radiating elements and does not require any field tuning or adjustments. The compact size of omni-directional antenna allows easy handling, shipping and highly suitable for transmitting, receiving UHF band without having the requirement of multiple antennas. Cylindrical enclosure is used for low wind loading and for minimal effect of ice formation on the antenna operation as well as providing an aesthetically pleasing appearance.

**CONSTRUCTIONS:** The UHF jammer collinear antenna is supplied complete in assembled condition. This high gain jammer manpack antenna has smooth VSWR and constant Gain over the 380-450 MHz UHF frequency band. The JCM-415 UHF jammer antenna consists of ultra corrosion resistant radiating elements and enclosed in ABS housing. The ABS has excellent transparency for Radio Signals and mechanically Robust to support extra mechanical strength to the antenna.

**MOUNTING:** The high gain man pack jammer collinear antenna is designed & supplied Man-pack application. The high gain man pack jammer antenna uses N-Male termination at the base so that same can be mounted directly on the equipment/transmitter. The antenna is designed with spring base mechanism so that it can fold/bend when hitting any obstacle especially in bushy areas. (The image shown below is without spring)

**NOTE:** Part # JCM-415-S with spring fitted at base. Add 100mm in overall length and add 250 Grams in gross weight.

### ELECTRICAL SPECIFICATIONS:

Frequency Range	380 - 450 MHz.
Gain	2.5 dBi. Typical
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni-directional
-3dB. Vertical Beam-width	78 Degrees
VSWR – Better Than	2:1
RF Power Handling Capacity	50 Watts.
Input Termination	N-Male

### MECHANICAL SPECIFICATIONS:

Wind Rating	60 Km/Hr.
Mounting Type	Directly on Transmitter
Overall Length	550 mm
Shipping Length	600 mm
Support Pipe Materials	6063T6 Aluminum Alloy
Enclosure/Radome Diameter	28 mm
Enclosure Materials	ABS/Fiberglass
Radiating Element Material	High Quality Brass
Gross Weight	450 Grams
Finish / Color	Olive Green or Customized

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-) 30 to +70 Degrees Celsius
Storage Temperature	(-) 40 to +80 Degrees Celsius
Humidity	0 to 95 % RH

