



ANTENNA EXPERTS

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Model # JC10-1600 **1500 – 1700 MHz.** **10 dBi. Gain**

HIGH GAIN BROAD BAND OMNI-DIRECTIONAL COLLINEAR ANTENNA

DESIGN FEATURES: The JC10-1600 Wide Band Omni-directional Collinear Antenna is rugged all weather model, enclosed in a Fiber Glass enclosure, uses 6063T6 ultra corrosion resistant architectural aluminum alloy and high quality brass radiating elements. The high gain fiberglass omni collinear antenna does not require any field tuning or adjustments. This fiber glass omni collinear antenna is specially designed to mount either on the side of the vehicle or on vertical pole. The antenna uses standard NATO 4 holes pattern base which is suitable to mount the antenna directly on the antenna adaptor base plate. Similarly the antenna can also be mounted on vertical pole with antenna adaptor base plate and “U” bolt supplied with antenna for base station application.



CONSTRUCTIONS: The special co-axial stub and spark gap techniques are used for smooth VSWR over entire the 1500 - 1700 MHz frequency band. The JC10-1600 high gain omni antenna consists of large diameter brass radiating elements stacked vertically, fed in-phase and enclosed in fiber glass housing. The Fiber Glass has excellent transparency for Radio Signal and mechanically Robust to support extra mechanical strength to the omni collinear antenna. The antenna can also be supplied with olive green colour for defense application.

ELECTRICAL SPECIFICATIONS:

Frequency Range	1500 - 1700 MHz.
Gain	10 dBi
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-Directional
Vertical Beam-width –Half Power Points	9 Degrees
VSWR – Better Than	2.5:1
RF Power Handling Capacity	200 Watts.
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Mounting Hardware Fasteners	Stainless Steel
Weight Approx	1.5 Kgs.
Wind Rating	160 Km/Hr.
Overall Length	1.35 Meters
Shipping Length	1.45 Meters
Support Pipe Outer Diameters	50 mm
Support Pipe Materials	6063T6 Aluminum Alloy
Radiating Materials	All High Quality Brass
Mounting Type	NATO Interface or Customized
Enclosure Materials	Fiberglass
Fiber Glass Enclosure Outer Diameter	45 mm

ENVIRONMENTAL SPECIFICATIONS:

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



Please contact us for further information like drawing, radiation patterns & VSWR graph etc.
Note: All information contained in the datasheet is subject to change without any prior notice.