

Operation manual

KP-20

High-gain antenna for 900MHz ISM Band

Features:

- **Excellent, omni-directional radiation pattern**
- Wide frequency range, no tuning adjustments required
- Heavy duty, one-piece white fiberglass radome
- Heavy-duty extruded aluminum mounting brackets with stainless steel hardware included to provide long-term stability and maintenance free operation even in the most adverse weather conditions
- Unique mounting pipe designed to act as a weather shield protecting the coax to antenna connection from wind/ice/snow etc.

Specifications:

Frequency: 902-928Mhz
 Gain: 9.2dBi
 3dB Beam Angle 9 degrees
 Max Power: 100 watts
 Impedance: 50 Ohms
 VSWR: 1.5:1 or less
 Max wind speed: 135MPH +
 Length: 8ft 1inches (97inches, inc mount pipe)
 Weight: 2lb 4ozs
 Connector: Integral N-female

Parts List:

- 3 Radials
- 1 Element
- 1 Power feeding section
- 2 Mount brackets
- 1 Mount support pipe
- 1 Lock bolt w/washer M6x8
- 2 Hex bolt w/washer M6x30
- 2 U-bolts w/washer and nut

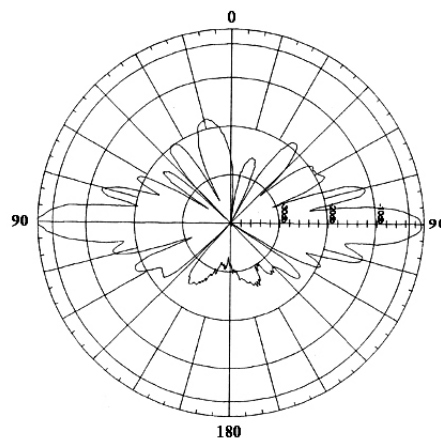
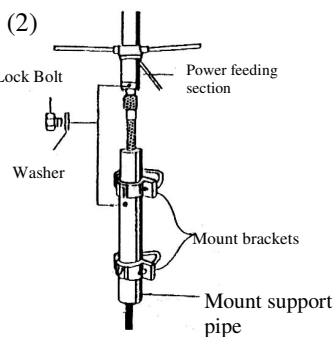
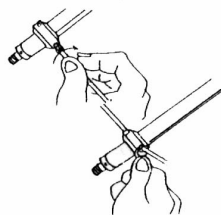
Assembly & mounting:

- (1) First attach the three radials to the radial ring and fasten tightly.
- (2) Mount the 2 brackets onto the mount support pipe. Pass the coax cable through the mount support pipe and connect to the antenna power feeding section. Next, slide the antenna down into the mount support pipe and tighten the lock bolt firmly.

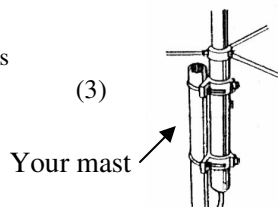
Note: Please use 50 ohm low loss high quality coaxial cable of the shortest length necessary to maintain the high gain performance of this antenna.

Use coax seal/vinyl tape to completely water-proof the coax to antenna connection. Be careful not to cover the ventilation holes that are on both sides of the connector, under the radial holder.

(1) Fasten radials tightly



- (3) Mount the above assembled antenna to your existing mast. The required mast size is 1.25" - 2.50 inches diameter.



Elevation pattern: This pattern represents the typical RF pattern when the KP-20 is mounted in free space without interference from other metal objects. The horizontal line in the center represents the horizon with the antenna mounted vertically in the center. The KP-20 radiates RF equally in all directions.