ANTENNA GAIN & CABLE LOSS CALCULATIONS

Tel: (650) 591-1400 Fax: (650) 591-2001

The two antennas are constructed with a 10' or 13' coaxial cable and non-standard MMCX connector. Below we have calculated the total net gain with the cable loss.

1. OMNIDIRECTIONAL ANTENNA CUSHCRAFT S2403BP120

This antenna is constructed with a 10 ft. Ultralink cable Part number TL92463. The Connector and cable has a loss of 4.3 dB.

Antenna gain = 3.0 dBd Cable loss = 3.8 dBd Total gain = -0.8 dBd

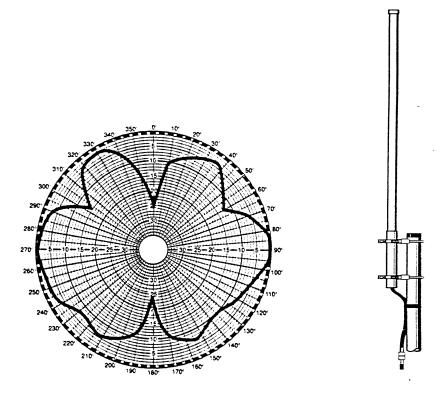
Connector loss = -0.5 dBdNet gain = -1.3 dBdOr = 0.84 dBi

Type Omni

Frequency 2.404 to 2.478 GHz

Gain 3 dBd Front to Back N/A Bandwidth, 1.5.1 100 MHz Beamwidth -3 dB E-plane 45° H-plane 360° Connector Type **MMCX** 13.5" Height **Enclosure Material** Fiberglass Weight 6 oz. Mount style Pipe clamp

Max. Mast Diameter 2"



2. DIRECTIONAL ANTENNA TELEX 2415

This antenna is constructed with a 13 ft. Ultralink cable Part number TL92463. Connector and cable for 13 ft is 4.3 dBd.

Antenna gain = 6.86 dBd Cable loss = -3.8 dBd Total gain = 3.06 dBd

Connector loss = -0.5 dBdNet gain = 2.56 dBdOr = 4.7 dBi

Polarity Vertical or Horizontal Frequency 2.404 to 2.478 GHz Gain 9 dBi or 6.86 dBd

Diameter 3" x 18" Front to Back >20 dB

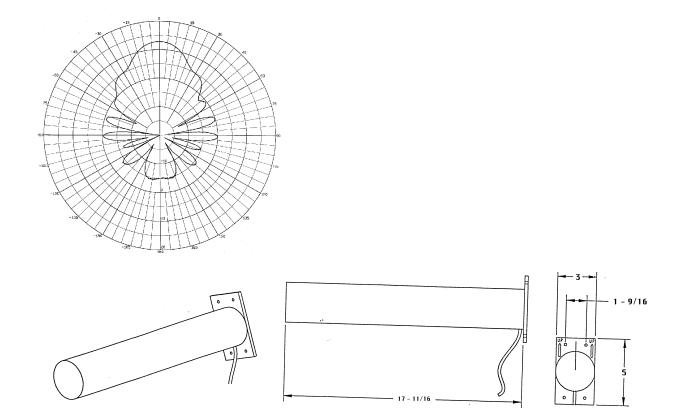
SWR 1.5.1 maximum

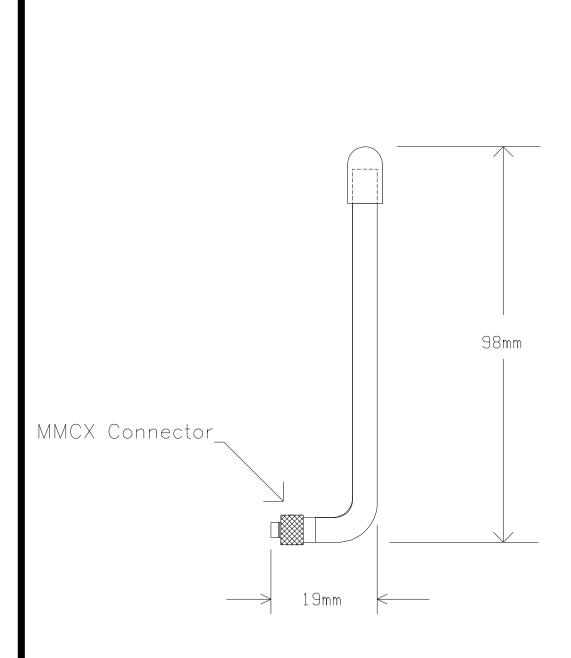
Half Power Beamwidth
Nominal Impedance
Connector Type
Weight

30°
50 ohms
MMCX
25 oz

Mount U-Bolt Provided

Max. Mast Diameter 1.52 "





Gain less then 0 dBb

1/ Tune for 2.450GHZ.

2/ Use MMCX Connector.

635	Title:			
America,Inc.	ANTENNA FOR 2.4GHZ			
Drawn by: Thuc Nguyen		Date:	7-11-0	1
Checked by: Teru Takahashi		Date:	7-11-0	1
Date of copy: 7-11-01	Drawing No: P/N 2011-MMCX-ANT			
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