

## V7CAP-480

Dual Band Vpol Antenna, 50.5", 80° H-Beams

698-896 MHz

1710-2170 MHz

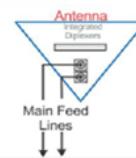
- Vertical Pol. Dual Band Antenna
- Dual Band
- Suitable for LTE/CDMA/UMTS/GSM
- Optional Internal Diplexers



### Available with Integrated Diplexers

Reduces mainline cables

Eliminates external devices



## ELECTRICAL SPECIFICATIONS

Frequency Band, MHz	698-896	1710-2170
Horizontal Beam Width, 3dB points	80°	80°
Vertical Beam Width, 3dB points	14.5°	7.5°
Polarization	Vertical	
Gain @ 698 MHz	13.1 dBi	
Gain @ 896 MHz	14.2 dBi	
Gain @ 1710 MHz	16.1 dBi	
Gain @ 2155 MHz	17.2 dBi	
Electrical Downtilt Range, 2° Increments	0-10° low, 0-6° high band	
VSWR/Return Loss	<1.40:1 / 15.6 dB	
VSWR / Return Loss w/ip	<1.50:1 / 14.0 dB	
Front-to-Back at Horizon	>27 dB	
Upper Side Lobe Suppression	<-18 dB	
Impedance	50 Ohms	
Power Input Per Connector CW, (w)	500	
Power Input Per Connector CW, (no "ip") (w)	500	250
Intermodulation (2x20W)	<-150 dBc	

## MECHANICAL SPECIFICATIONS

Input Connector (female)	Back 7/16 DIN or w/bot. opt.
Recommended Connector Coupling Torque	7/16 DIN: 220-265 lbf-in (25-30 N-m)
Antenna Dimensions (LxWxD)	50.5 x 14.6 x 7.1 in (1282x371x180mm)
*Antenna Weight	Est. 30 lbs
Bracket Weight	13.2 lbs
RF Distribution	Printed Microstrip Substrate
Radome	Ultra High-Strength Luran
Weatherability	UV Stabilized, ASTM D1925
Radome Water Absorption	ASTM D570, 0.45%
Environmental	MIL-STD-810E
Wind Survival	150 mph
Front Wind Load @100mph	127 lbf (565.8n)
Equivalent Flat Plate @100mph	2.59 sq-ft. (c=2)
Mounting Brackets (919011)	Fits 3.5 Inch Max. O.D. Pipe
Mechanical Downtilt Range	0-12°
Standard Bracket Kit	P/N 919011 ( Included )
Clamps/Bolts	Galvanized Steel/Stainless Steel

## ORDER INFORMATION

MODEL	DESCRIPTION
V7CAP-480-xy	"xy" is a placeholder for the built-in fixed electrical down tilt in degrees, "x" for low band, y for high band.
V7CAP-480-xyip	to add the option for integrated diplexers, add "ip" to model number
V7CAP-480-xyip-bot	for bottom mounted connectors, add "-bot" (otherwise antenna comes standard with back mounted connectors)
919036	Optional Bracket Kit, 2-Point, 12deg D-tilt, For 4.5" OD Pole

\*Antenna Weight may vary slightly with options.