

## V7CAP-865

Dual Band Vpol Antenna, 96", 65° H-Beams

698-896 MHz

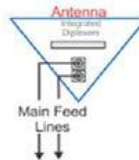
1710-2170 MHz

- Vertical Pol. 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	65°	65°
Vertical Beam Width, 3dB points	7.5°	4°
Polarization	Vertical	
Gain @ 698 MHz	16.9 dBi	
Gain @ 896 MHz	17.5 dBi	
Gain @ 1710 MHz	19.1 dBi	
Gain @ 2155 MHz	19.7 dBi	
Electrical Downtilt Range, 2° Increments	0-10° low, 0-6° high band	
VSWR/Return Loss	<1.45:1 / 14.7 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)	96.0 x 12.5 x 7.1 in (2438x318x180mm)
*Antenna Weight	53 lbs
Bracket Weight	18.2 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	236.5 lbf
Equivalent Flat Plate @100mph	4.81 sq-ft. (c=2)
Mounting Brackets (919011)	Fits 3.5 Inch Max. O.D. Pipe
Mechanical Downtilt Range	0-6°
Standard Bracket Kit	P/N 919032 ( Included )
Clamps/Bolts	Galvanized Steel/Stainless Steel

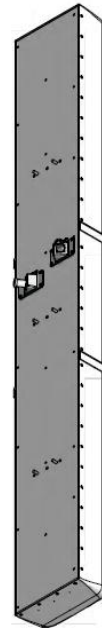
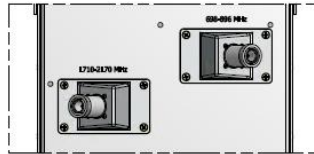
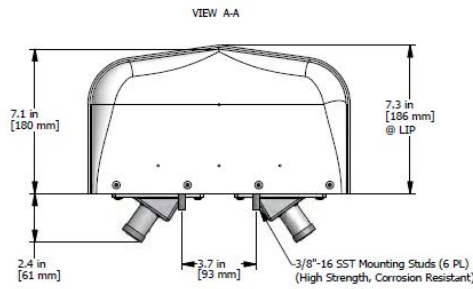
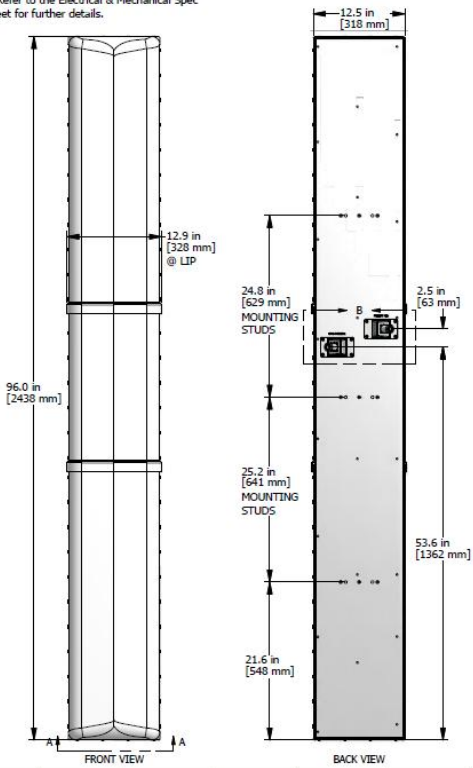
## ORDER INFORMATION

MODEL	DESCRIPTION
V7CAP-865-xy	"xy" is a placeholder for the built-in fixed electrical down tilt in degrees, "x" for low band, y for high band.
V7CAP-865-xyip	to add the option for integrated duplexers, add "ip" to model number
V7CAP-865-xyip-bot	for bottom mounted connectors, add "-bot" (otherwise antenna comes standard with back mounted connectors)
919049	Optional Bracket Kit, 3-Point, 6 degree D-tilt, For 4.5" OD Pole

\*Antenna Weight may vary slightly with options.

# Mechanical Drawing

Notes:  
 1. Dimensions are in Inches [Millimeters].  
 2. Refer to the Electrical & Mechanical Spec Sheet for further details.



**Recommended Connector Coupling Torque**  
 716 DIN: 220-265 lbf-in (25-30 N-m)  
 Type N: 12-15 lbf-in (1.4-1.7 N-m)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON XXXX & 000 - XX & 02 XXX & 010 - X & 1 ANGLES & 5°		NAME	DATE		CSA ANTENNA, INC. 200 CALLETA BLVD. BIRMINGHAM, AL 35202 404-433-8888 FAX: 404-433-8888
THIRD ANGLE PROJECTION		DESIGNER	DATE		
		VTCAP-865			
		DATE	REV		
		D	670865-AD		
		SCALE	FILE		
		1 OF 1			