

## V7C-865

Vpol, Antenna, 698-896 MHz, 96", 65° H-Beam

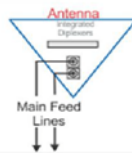
- Vertical Pol. Antenna
- Suitable for LTE/CDMA/UMTS/GSM
- Optional Internal Diplexers



### Available with Integrated Diplexers

Reduces mainline cables

Eliminates external devices



## ELECTRICAL SPECIFICATIONS

Frequency Band, MHz	698	752	782	896
Horizontal Beamwidth, 3dB points	65°	65°	65°	65°
Gain, dBi	16.4	16.8	16.9	17.5
Vertical Beamwidth, 3dB points	7.5°	7.5°	7.5°	7.5°
Polarization	Vertical			
Electrical Downtilt Range, 2° Increments	0-10°			
VSWR/Return Loss	<1.45:1 / 14.7 dB			
VSWR / Return Loss w/tp	<1.50:1 / 14.0 dB			
Front-to-Back at Horizon	>30 dB			
Upper Side Lobe Suppression	<-18 dB			
Impedance	50 Ohms			
Power Input Per Connector CW, (w)	500			
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. (2438 x 318 x 180mm)
*Antenna Weight	37.2 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	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
V7C-865-x	"-x" is a placeholder for the built-in fixed electrical downtilt in degrees, set to 0, 2, 4, 6, 8 or 10
V7C-865-xip	"ip" option includes pass-thru integrated diplexer(s) which pass DC to the diplexer port(s)
V7C-865-xip-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.