

## V7C-FRO-840

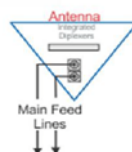
Vpol, 40° H-Beam

698-896 MHz

### Available with Integrated Diplexers

Reduces mainline cables

Eliminates external devices



## ELECTRICAL SPECIFICATIONS

<b>Frequency Band, MHz</b>	<b>698-896</b>
Polarization	Vertical
Gain @ 698 MHz	18.4 dBi
Gain @ 782 MHz	18.9 dB
Gain @ 896 MHz	19.5 dBi
Horizontal Beam (3dB Points)	40°
Vertical Beam (3dB Points)	8°
Elect. Downtilt Range, 2° Increments	0-10°
VSWR (0° ET) / Return Loss	<1.45:1 / 14.7 dB
VSWR (2, 4 & 6° ET)	<1.40:1 / 15.6 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	500 CW at 800 MHz
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 18.8 x 8.9 in. (2438 x 478 x 226mm)
Antenna Weight	57.4 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	135 mph
Front Wind Load @100mph	312 lbf
Equivalent Flat Plat @100mph	6.36 sq-ft. (c=2)
Mounting Brackets	Fits 3.5 Inch Max. O.D. Pipe
Mechanical Downtilt Range	0-6°
Clamps/Bolts	Galvanized Steel/Stainless Steel

## ORDER INFORMATION

MODEL	DESCRIPTION
V7C-FRO-840-x	"-x" is a placeholder for the built-in fixed electrical downtilt in degrees, set to 0, 2, 4, 6, 8 or 10
V7C-FRO-840-xip	"ip" option includes pass-thru integrated diplexer(s) which pass DC to the diplexer port(s)
V7C-FRO-840-xip-bot	for bottom mounted connectors, add "-bot" (otherwise antenna comes standard with back mounted connectors)

**\*Antenna Weight may vary slightly with options.**

## Mechanical Drawing

## Standard Bracket Kit

## Optional Bracket Kit