



# X7CAP-680

## 80° Azimuth Beam, 72.0 inches

Directing our energies for you.

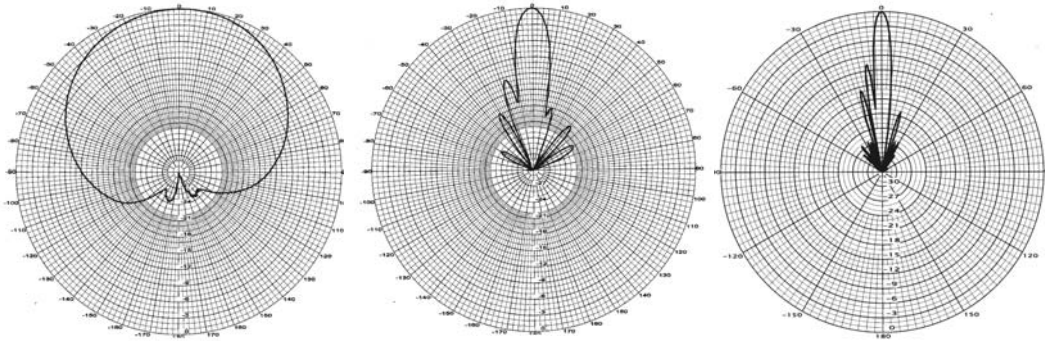
698-896 & 1710-2170 MHz Band

### Electrical Specifications

Frequency	698-896 & 1710-2170 MHz
Polarization	Slant +/- 45
Gain @ 698 MHz	12.3 dBd
Gain @ 896 MHz	13.3 dBd
Gain @ 1710 MHz	14.7 dBd
Gain @ 2155 MHz	15.7 dBd
Horizontal Beam (3dB Points)	80° & 80°
Vertical Beam (3dB Points)	11° & 5°
Electrical Downtilt Options	2, 4 or 6°
VSWR / Return Loss	<1.40:1 / 15.6 dB
VSWR Opt "i" / Return Loss	<1.50:1 / 14.0 dB
Front-to-Back at Horizon	>27 dB & >27 dB
Upper Side Lobe Suppression	<-18 dB & <-18 dB
Impedance	50 Ohms
Power Input Per Connector	500/250 Watts CW
Isolation	< -27 dB
Intermodulation (2x20W)	<-150 dBc

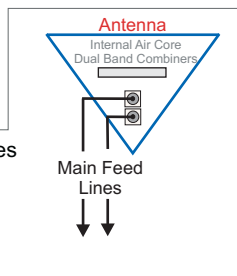
### Mechanical Specifications

Input Connector (female)	Back 7/16 DIN (silver finish) or w/bot. opt.
Antenna Dimensions (LxWxD)	72.0 x 14.6 x 7.9 in. (1829 x 371 x 201mm)
*Antenna Weight	44 lbs
Bracket Weight	13.2 lbs
Lightning Protection	Direct Ground
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	208 lbs
Equivalent Flat Plate @ 100MPH	4.23 sq-ft. (c=2)
Mounting Brackets	Fits 3.5 Inch Max. O.D. Pipe
Mechanical Downtilt Range	0-12°
Clamps/Bolts	Hot Dip Galvanized Steel/Stainless Steel



#### Available with Opt "i"

- The Opt "i" antenna option provides Integrated Diplexers that reduce mainline cables and eliminate separate external devices.



**5 Year Warranty**

### Ordering Information & Options

- X7CAP-680-xy "xy" is a placeholder for the built-in fixed electrical downtilt in degrees 2, 4 or 6, "x" for low band, y for high band.
- X7CAP-680-xyi to add the Opt "i" option for integrated diplexers, add "i" to model number
- X7CAP-680-xyi-bot for bottom mounted connectors, add "-bot" (otherwise antenna comes standard with back mounted connectors)
- X7CAP-680-xyi-bot-j# add a "j#" to add a 1/2" RF cable, where "#" is the cable length, "j2" is 2 meters, "j4" is 4 meters, "j6" is 6 meters...

\*Antenna Weight may vary slightly with options such as back or bottom connector and integrated diplexers.