



# X7-680

## Xpol, 80° H-Beam

698-800 MHz

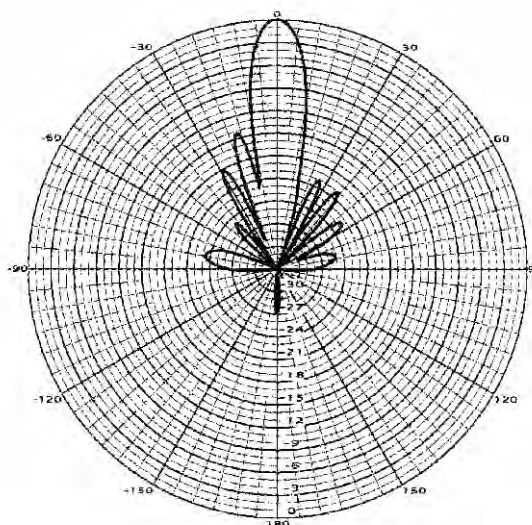
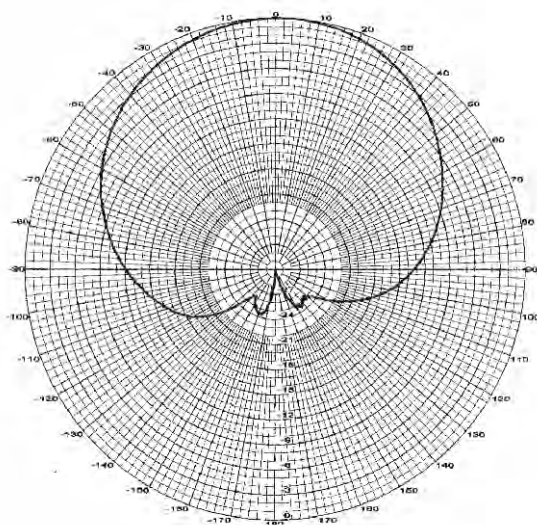
[Link to Mechanical Drawing](#) →

### Electrical Specifications

Frequency	698-800 MHz
Polarization	Slant +/- 45
Gain @ 800 MHz	14.7 dBi
Horizontal Beam (3dB Points)	80°
Vertical Beam (3dB Points)	11°
Elect. Downtilt Range, 2° Increments	0-10°
VSWR / Return Loss	<1.40:1 / 15.6 dB
Front-to-Back at Horizon	>27 dB
Upper Side Lobe Suppression	<-16 dB
Impedance	50 Ohms
Power Input Per Connector	500 CW at 800 MHz
Isolation	<-28 dB
Intermodulation (2x20W)	<-150 dBc

### Mechanical Specifications

Input Connector (female)	Back 7/16 DIN or w/bot. opt.
Antenna Dimensions (LxWxD)	72.0 x 12.5 x 7.1 in. (1829 x 318 x 180mm)
*Antenna Weight	approx 27 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	177.4 lbf
Equivalent Flat Plate @100mph	3.6 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



Recommended Connector Coupling Torque  
7/16 DIN: 220-265 lbf-in (25-30 N-m)

### Ordering Information & Options

X7-680-x                      "-x" is a placeholder for the built-in fixed electrical downtilt in degrees, set to 0, 2, 4, 6, 8 or 10  
 X7-680-x-bot                for bottom mounted connectors, add "-bot" (otherwise antenna comes standard with back mounted connectors)

\*Antenna Weight may vary slightly with options.