



X7-FRO-860

Xpol, 58° H-Beam

698-800 MHz

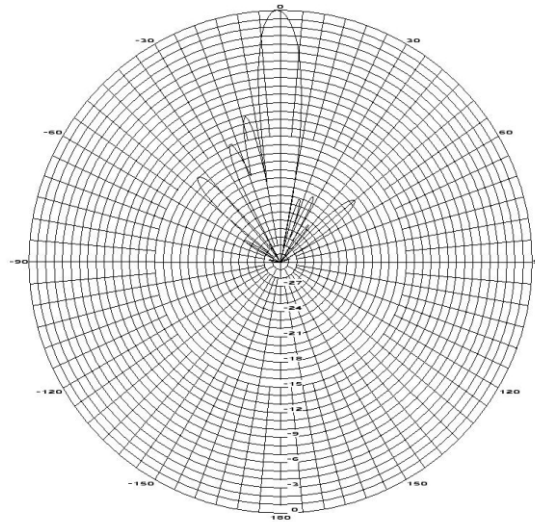
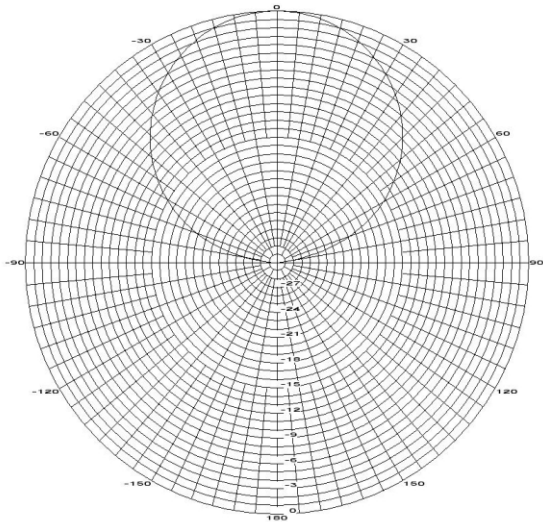
[Link to Mechanical Drawing](#) →

Electrical Specifications

Frequency	698-800 MHz
Polarization	Slant +/- 45
Gain @ 698 MHz	17.2 dBi
Gain @ 752 MHz	17.5 dBi
Gain @ 782 MHz	17.7 dBi
Horizontal Beam (3dB Points)	58°
Vertical Beam (3dB Points)	8.5°
Elect. Downtilt Range, 2° Increments	0-10°
VSWR / Return Loss	<1.45:1 / 14.7 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
Isolation	< -28 dB
Intermodulation (2x20W)	<-150 dBc

Mechanical Specifications

Input Connector (female)	Back 7/16 DIN or w/bot. opt.
Antenna Dimensions (LxWxD)	96.0 x 14.6 x 8.0 in. (2438 x 372 x 203mm)
*Antenna Weight	46 lbs
Bracket Weight	18.2 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	288 lbf
Equivalent Flat Plate @100mph	5.87 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-FRO-860-x "-x" is a placeholder for the built-in fixed electrical downtilt in degrees, set to 0, 2, 4, 6, 8 or 10
 X7-FRO-860-x-bot for bottom mounted connectors, add "-bot" (otherwise antenna comes standard with back mounted connectors)

*Antenna Weight may vary slightly with options.