

## X7-865

Xpol, 65° H-Beam  
698-800 MHz



### ELECTRICAL SPECIFICATIONS

Frequency Band, MHz	698-800 MHz
Polarization	Slant +/- 45
Gain @ 698 MHz	16.4 dBi
Gain @ 752 MHz	16.8 dBi
Gain @ 782 MHz	16.9 dBi
Horizontal Beam (3dB Points)	65°
Vertical Beam (3dB Points)	7.5°
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.
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
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	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°
Clamps/Bolts	Galvanized Steel/Stainless Steel

## ORDER INFORMATION

MODEL	DESCRIPTION
X7-865-x	"-x" is a placeholder for the built-in fixed electrical downtilt in degrees, set to 0, 2, 4, 6, 8 or 10
X7-865-x-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