

698-800 MHz  
1850-1990 MHz

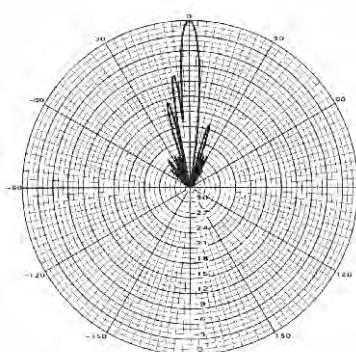
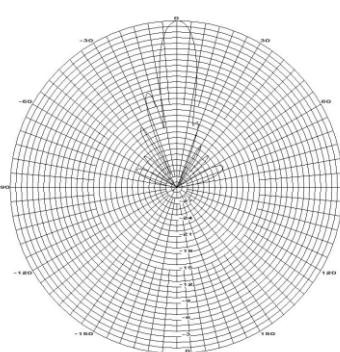
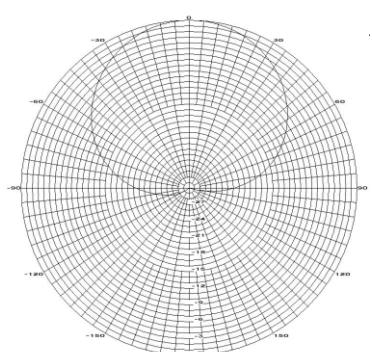
### Electrical Specifications

Frequency	698-800 & 1850-1990 MHz
Polarization	Slant +/- 45
Gain @ 800 MHz	15.3 dBi
Gain @ 1900 MHz	18.4 dBi
Horizontal Beam (3dB Points)	65° & 65°
Vertical Beam (3dB Points)	11° & 5°
Elect. Downtilt Range, 2° Increments	0-10° low, 0-6° high band
VSWR / Return Loss	<1.40:1 / 15.6 dB
VSWR / Return Loss w/ ip	<1.50:1 / 14.0 dB
Front-to-Back at Horizon	>27 dB
Upper Side Lobe Suppression	<-18 dB
Impedance	50 Ohms
Power Input Per Connector ("ip")	500 CW at 800 MHz
Power Input Per Connector (no "ip")	500 CW at 800 MHz and 250 CW at 1900 MHz
Isolation	< -28 dB
Intermodulation (2x20W)	<-150 dBc

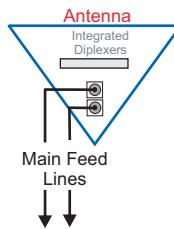
### Mechanical Specifications

Input Connector (female)	Back 7/16 DIN or w/bot. opt.
Antenna Dimensions (LxWxD)	72.0 x 12.5 x 7.1 in.(1829x318x180mm)
*Antenna Weight	28 lbs
Bracket Weight	13.2 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	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	0-12°
Clamps/Bolts	Galvanized Steel/Stainless Steel

[Link to Mechanical Drawing](#)



Available with  
Integrated Diplexers to  
reduce mainline cables  
and eliminate separate  
external devices



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

### Ordering Information & Options

X7P-665-**xy**

"-xy" is a placeholder for the built-in fixed electrical downtilt in degrees, set to 0, 2, 4, 6, 8 or 10

X7P-665-xyip

to add the option for integrated diplexers, add "ip" to model number

X7P-665-xyip-bot

for bottom mounted connectors, add "-bot" (otherwise antenna comes standard with back mounted connectors)

\*Antenna Weight may vary slightly with options.