

## X7CAP-680

X-Pol Dual Band Antenna, 698-896/1710-2170 MHz,  
(72", 80° H-Beam )

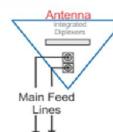


- Macro Cell High Gain Antenna
- Broadband Radiators
- Highly Reliable Fixed Tilt Design
- Suitable for LTE/CDMA/UMTS/GSM
- Mechanical Tilt Bracket Included

Available with Integrated Diplexers

Reduces mainline cables

Eliminates external tower devices



### ELECTRICAL SPECIFICATIONS

Frequency Band, MHz	698-824	824-896	1710-1880	1850-1990	1920-2170
Horizontal Beam Width, 3dB points		80°		80°	
Gain, dBi	14.4	15.4	16.8	17.0	17.8
Vertical Beam Width, 3dB points		11°		5.0°	
Front-to-Back at 180°, dB	>27			>27	
Upper Side Lobe Suppression, Typical, dB	<-18			<-18	
Polarization	+/-45°			+/-45°	
Electrical Down Tilt, Fixed	0, 2, 4, 6, 8, 10°			0, 2, 4, 6°	
VSWR/Return Loss, dB, Maximum (non-IP)	1.4:1/-15.6			1.4:1/-15.6	
VSWR/Return Loss, dB, Maximum (with-IP)	1.5:1/-14.0			1.5:1/-14.0	
Isolation Between Ports, dB, Minimum	27			27	
Intermodulation (2x20w), IM3, dBc, Maximum	-150			-150	
Impedance, ohms	50			50	
Maximum Power Per Connector, CW	500 @ 800 MHz			250 @ 1900 MHz	

## MECHANICAL SPECIFICATIONS

Dimensions, Length/Width/Depth	72.0/14.6/8.1 in. (1829/372/206mm)
Connector (Quantity)	(2 or 4) 7-16 DIN Female
Connector Torque	220-265 lbf-in (23-30 N-m)
Connector Location	Back or Bottom
Antenna Weight	44.0 lbs (20.0 kg) <i>Note: Weight varies slightly based on ordering options</i>
Bracket Weight	13.2 lb. (6.0 kg)
Standard Bracket Kit	CSS P/N 919011 ( Included )
Mechanical Down Tilt Range	0-12°
Radome Material	High Strength Luran, UV Stabilized, ASTM D1925
Wind Survival	150 mph (241 km/h)
Front Wind Load	211.6 lbf (941.4 N) @100mph
Equivalent Flat Plate	4.22 sq-ft (c=2) @ 100mph

## ORDER INFORMATION

MODEL	DESCRIPTION
X7CAP-680- <b>xy</b>	X-Pol dual band antenna with four back DIN connectors
X7CAP-680- <b>xy</b> -IP	X-Pol dual band antenna with two back DIN connectors with integrated diplexers
X7CAP-680- <b>xy</b> -B	X-Pol dual band antenna with four bottom DIN connectors
X7CAP-680- <b>xy</b> -IP-B	X-Pol dual band antenna with two bottom DIN connectors with integrated diplexers
919036	Optional Bracket Kit, 2-Point, 12deg D-tilt, For 4.5" OD Pole

**x** defines the low band electrical tilt

**y** defines the high band electrical tilt