

## X7CAP-880

X-Pol Dual Band Antenna, 698-896/1710-2170 MHz,  
(96", 80° H-Beam )

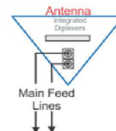
- Macro Cell High Gain Antenna
- Broadband Radiators
- Highly Reliable Fixed Tilt Design
- Suitable for LTE/CDMA/UMTS/GSM
- Mechanical Tilt Bracket Included



### 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                                  | 15.5               | 16.4    | 18.0           | 18.3      | 18.9      |
| Vertical Beam Width, 3dB points            | 8.0°               |         | 4.5°           |           |           |
| 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              | 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 | 96.0/14.6/8.6 in. (2438/372/219mm)   |
| 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                 | 49.4 lbs (22.4 kg) <i>Note: Weight varies slightly based on ordering options</i> |
| Bracket Weight                 | 18.2 lb. (8.3 kg)  |
| Standard Bracket Kit           | CSS P/N 919032 ( Included )  |
| Mechanical Down Tilt Range     | 0-6°   |
| Radome Material                | High Strength Luran, UV Stabilized, ASTM D1925                                   |
| Wind Survival                  | 150 mph (241 km/h)   |
| Front Wind Load                | 282.2 lbf (1255.2 N) @100mph   |
| Equivalent Flat Plate          | 5.62 sq-ft (c=2) @ 100mph  |

## ORDER INFORMATION

| MODEL                      | DESCRIPTION  |
|----------------------------|--|
| X7CAP-880- <b>xy</b>       | X-Pol dual band antenna with four back DIN connectors                            |
| X7CAP-880- <b>xy</b> -IP   | X-Pol dual band antenna with two back DIN connectors with integrated diplexers   |
| X7CAP-880- <b>xy</b> -B    | X-Pol dual band antenna with four bottom DIN connectors                          |
| X7CAP-880- <b>xy</b> -IP-B | X-Pol dual band antenna with two bottom DIN connectors with integrated diplexers |
| 919049                     | Optional Bracket Kit, 3-Point, 6deg D-tilt, For 4.5" OD Pole                     |

**x** defines the low band electrical tilt

**y** defines the high band electrical tilt