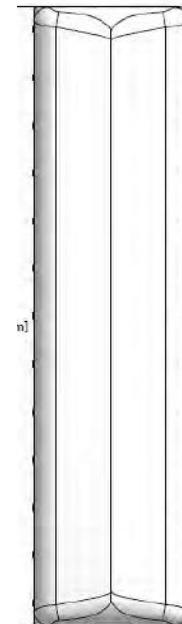


## X7-465

Xpol, 65° H-Beam

698-800 MHz



### ELECTRICAL SPECIFICATIONS

| Frequency Band, MHz                  | 698-800 MHz       |
|--------------------------------------|-------------------|
| Polarization                         | Slant +/- 45      |
| Gain @ 698 MHz                       | 13.8 dBi          |
| Gain @ 752 MHz                       | 14.1 dBi          |
| Gain @ 782 MHz                       | 14.3 dBi          |
| Horizontal Beam (3dB Points)         | 65°               |
| Vertical Beam (3dB Points)           | 14.5°             |
| Elect. Downtilt Range, 2° Increments | 0-10°             |
| VSWR / Return Loss                   | <1.40:1 / 15.6 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

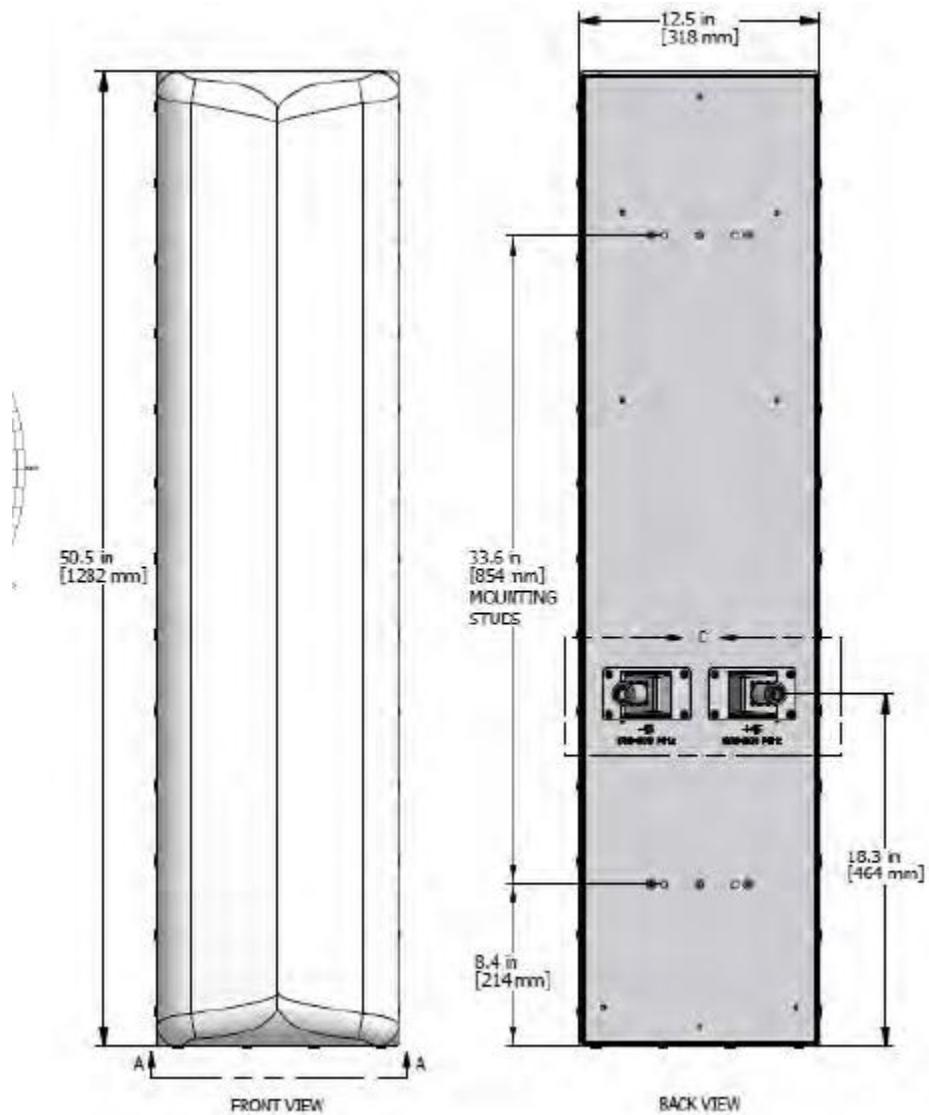
|                                       |  |
|---------------------------------------|--|
| Input Connector (female)              | Back 7/16 DIN or w/bot. opt.               |
| Recommended Connector Coupling Torque | 7/16 DIN: 220-265 lbf-in (25-30 N-m)       |
| Antenna Dimensions (LxWxD)            | 50.5 x 12.5 x 7.1 in. (1282 x 318 x 180mm) |
| Antenna Weight                        | 19.2 lbs                                   |
| Bracket Weight                        | 13.2 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               | 124.4 lbf                                  |
| Equivalent Flat Plate @100mph         | 2.53 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           |

## ORDER INFORMATION

| MODEL        | DESCRIPTION   |
|--------------|---|
| X7-465-x     | "-x" is a placeholder for the built-in fixed electrical downtilt in degrees, set to 0, 2, 4, 6, 8 or 10   |
| X7-465-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