

X7-480

Xpol, 80° H-Beam

698-800 MHz



ELECTRICAL SPECIFICATIONS

| | |
|--------------------------------------|--------------------|
| Frequency Band, MHz | 698-800 MHz |
| Polarization | Slant +/- 45 |
| Gain @ 800 MHz | 13.4 dBi |
| Horizontal Beam (3dB Points) | 80° |
| Vertical Beam (3dB Points) | 17.3° |
| 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 | <-16 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 7.8 in. (1282 x 318 x 198mm) |
| Antenna Weight | 20 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 |
|--------------|---|
| X7-480-x | "-x" is a placeholder for the built-in fixed electrical downtilt in degrees, set to 0, 2, 4, 6, 8 or 10 |
| X7-480-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