

V7C-865

Vpol, Antenna, 698-896 MHz, 96", 65° H-Beam

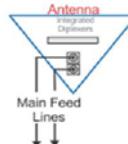


- Vertical Pol. Antenna
- Suitable for LTE/CDMA/UMTS/GSM
- Optional Internal Diplexers

Available with Integrated Diplexers

Reduces mainline cables

Eliminates external devices



ELECTRICAL SPECIFICATIONS

| Frequency Band, MHz | 698 | 752 | 782 | 896 |
|--|-------------------|------|------|------|
| Horizontal Beamwidth, 3dB points | 65° | 65° | 65° | 65° |
| Gain, dBi | 16.4 | 16.8 | 16.9 | 17.5 |
| Vertical Beamwidth, 3dB points | 7.5° | 7.5° | 7.5° | 7.5° |
| Polarization | Vertical | | | |
| Electrical Downtilt Range, 2° Increments | 0-10° | | | |
| VSWR/Return Loss | <1.45:1 / 14.7 dB | | | |
| VSWR / Return Loss w/ ip | <1.50:1 / 14.0 dB | | | |
| Front-to-Back at Horizon | >30 dB | | | |
| Upper Side Lobe Suppression | <-18 dB | | | |
| Impedance | 50 Ohms | | | |
| Power Input Per Connector CW, (w) | 500 | | | |
| 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) | 96.0 x 12.5 x 7.1 in. (2438 x 318 x 180mm) |
| *Antenna Weight | 37.2 lbs |
| Bracket Weight | 18.2 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 | 236.5 lbf |
| Equivalent Flat Plate @100mph | 4.81 sq-ft. (c=2) |
| Mounting Brackets | Fits 3.5 Inch Max. O.D. Pipe |
| Mechanical Downtilt Range | 0-6° |
| Standard Bracket Kit | P/N 919032 (Included) |
| Clamps/Bolts | Galvanized Steel/Stainless Steel |

ORDER INFORMATION

| MODEL | DESCRIPTION |
|-----------------|---|
| V7C-865-x | "-x" is a placeholder for the built-in fixed electrical downtilt in degrees, set to 0, 2, 4, 6, 8 or 10 |
| V7C-865-xip | "ip" option includes pass-thru integrated diplexer(s) which pass DC to the diplexer port(s) |
| V7C-865-xip-bot | for bottom mounted connectors, add "-bot" (otherwise antenna comes standard with back mounted connectors) |
| 919049 | Optional Bracket Kit, 3-Point, 6 degree D-tilt, For 4.5" OD Pole |

*Antenna Weight may vary slightly with options.