

Sinclair's Low PIM UHF Panel Antennas

Sinclair's SP304 series, UHF panel antennas offer excellent reliability and durability for mission critical applications. These low passive intermodulation (PIM) antennas are available in vertical, cross and circular polarizations. The vertically polarized wideband version (SP304V-SWB) is broadband and covers the full range of 380-512 MHz with other models in the series covering the band in two frequency splits: 380-450 MHz and 450-512 MHz.

Various electrical downtilt (0,10,15) and beamwidth (65/70,90 and 120) options are available. The dual port, cross polarized version (SP304X) can be used for polarization diversity to reduce multiple path effect. This versatile dual band antenna can also be used as one Tx antenna and one Rx antenna to save tower space.



Sinclair's UHF Panel Antenna Series

| Model Number | Frequency (MHz) | Beamwidth (Degrees) | Bandwidth (MHz) | Polarization | Electrical Tilt * | Gain (dBd) |
|-------------------|-----------------|---------------------|-----------------|--------------------------|-------------------|------------|
| SP304V-SF1P70LDF | 380-450 | 70 | 70 | Vertical | 0,10,15 | 11.5 |
| SP304V-SF2P70LDF | 450-512 | 70 | 62 | Vertical | 0,10,15 | 12 |
| SP304V-SWBP90LDF | 380-512 | 90 | 132 | Vertical | 0,10,15 | 10.5 |
| SP304V-SWBP120LDF | 380-512 | 120 | 132 | Vertical | 0,10,15 | 9.5 |
| SP304X-SF1P65LDF | 380-450 | 65 | 70 | Dual Cross Polarized | 0,10,15 | 12 |
| SP304X-SF2P65LDF | 450-512 | 65 | 62 | Dual Cross Polarized | 0,10,15 | 12 |
| SP304C-SF1P65LDF | 380-450 | 65 | 70 | Circular Cross Polarized | 0,10,15 | 12 |
| SP304C-SF2P65LDF | 450-512 | 65 | 62 | Circular Cross Polarized | 0,10,15 | 12 |

*Other electrical tilt options available upon request

Features:

- Compact flat panel design for UHF band sector coverage.
- Durable low passive intermodulation (PIM) performance, -150 dBc.
- Wideband model, covers 380-512 MHz full range.
- Several electrical downtilt and field adjustable mechanical downtilt options available.
- Rated wind loading (without ice), 135 MPH (217 KPH).
- Two clamping options: Clamp 170 for standard pole mount and Clamp 191 for mechanical downtilt.
- Approximate weight: 46 lbs (21 kg).
- Approximate dimensions: 77" H x 19" W x 8.5" D (196 x 48 x 22 cm).

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RELIABILITY
SECURITY
CUSTOMIZATION
COVERAGE

Sinclair provides antennas, filters, combining systems, and radio coverage solutions for RF telecommunications networks. Designed to function in extreme weather conditions, Sinclair's products enjoy a reputation for high performance, reliability, durability and value. We have been serving our markets with new innovative products for over 57 years.

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