

SP304V-SF2P70LDF(D00) Vertical polarized, 12 dBd, low PIM, 70° Beam Width, 450-512 MHz

- Compact flat pannel design for UHF band sector coverage
- Durable low passive intermodulation performance
- Wideband- covers 450-512 MHz full range
- Electrical down tilt and field adjustable mechanical down tilt are available

Sinclair's new UHF panel antenna SP304V series is designed for mission critical applications where reliability and durability are the major concerns. It is configured with a light weight UV protected radome, covering 380-512 MHz frequency range by two frequency splits, 380-450 MHz and 450-512 MHz. Wide band versions are also available that cover the entire 380-512 MHz range with horizontal beamwidths of 90 degrees or 120 degrees.

Electrical downtilts are available in 0, 5, 10 and 15 degrees. Other electrical downtilts are available upon request. The antenna can be pole mounted or wall mounted using Sinclair Clamp170. Mechanical tilt for up to 15 degrees downtilt or 10 degrees uptilt is available using Sinclair Clamp191. Both Clamp170 and Clamp191 must be ordered separately.

For vertical polarization, the available horizontal beamwidths are 70 degrees, 90 degrees or 120 degrees.



| Region | United States | Europe, Middle East and Africa | Caribbean and Latin America | Canada and rest of the world |
|-----------|-----------------------|--------------------------------------|--------------------------------|--|
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Electrical Specifications

| | | | |
|-------------------------------------|-----------|-----------------------|----|
| Frequency Range | MHz | 450 to 512 | |
| Bandwidth | MHz | 62 | |
| Connector | | 7/16 DIN-Female | |
| Gain (nominal) | dBd (dBi) | 12 (14.1) | |
| Input VSWR (max) | | 1.5:1 | |
| Polarization | | vertical | |
| Impedance | Ω | 50 | |
| Pattern | | Directional | |
| Horizontal beamwidth (typ) | degrees | 70 | *1 |
| Vertical beamwidth (typ) | degrees | 16 | |
| Average Power Input (max) | W | 500 | |
| Passive intermod. (2x20W, 3rd ord.) | dBc | -150 | |
| Lightning protection | | DC ground | |
| Electrical tilt (available) | | 0,5,10, or 15 degrees | *2 |
| Front-to-back ratio (typ) | dB | 25 | *3 |

Notes

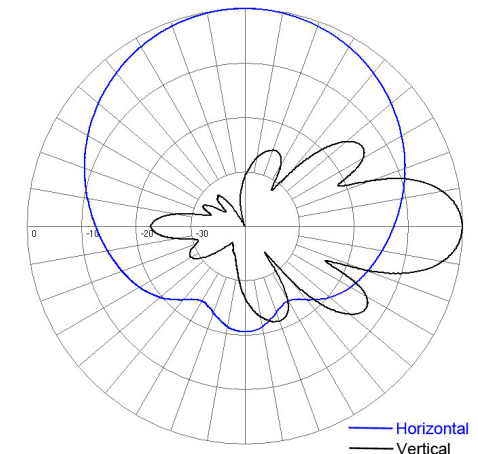
- *1 : Typical
- *2 : Other tilt available upon request
- *3 : Typical
- *4 : Maximum 4inches

Mechanical Specifications

| | | | |
|------------------------------|----------|---|----|
| Depth | in (mm) | 8.5 (216) | |
| Length/ Height | in (mm) | 77 (1956) | |
| Width | in (mm) | 19 (483) | |
| Base pipe diameter | in (mm) | 2.88 (73) | *4 |
| Radiating element material | | prntd circuit bd | |
| Reflector material | | aluminum alloy | |
| Weight | lbs (kg) | 46.54 (21.13) | |
| Weight iced | lbs (kg) | 68 (30.87) | |
| Mounting Hardware (Optional) | | Clamp170 Kit without DT, Clamp191 with DT | |
| Actual Shipping weight | lbs (kg) | 61 (27.69) | |
| Shipping dimensions | in (mm) | 81.5x24x14 (2070x610x356) | |

Environmental Specifications

| | | | |
|---|-------------|--------------------------|--|
| Temperature range | °F (°C) | -40 to +158 (-40 to +70) | |
| Wind Loading Area (Flat Plate Equivalent) | ft² (m²) | 10.17 (0.94) | |
| Wind Loading Area (1/2" ice) | ft² (m²) | 10.84 (1.01) | |
| Rated wind velocity (no ice) | mph (km/h) | 135 (217) | |
| Rated wind velocity (1/2" radial ice) | mph (km/h) | 110 (177) | |
| Lateral thrust (100 mph No Ice) | lbs (N) | 220 (978.6) | |
| Torsional moment (100 mph No Ice) | ft-lbs (Nm) | 140 (189) | |



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