

SP304V-SWBP90LDF(D00) Vertical polarized UHF panel, 10.5 dBd, 90° Beamwidth, low PIM, 380-512 MHz

- Compact flat panel design for UHF band sector coverage
- Durable low passive intermodulation performance
- Wideband- covers 380-512 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 the entire 380-512 MHz frequency range.

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 downtilt for up to 12 degrees 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
Telephone	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com

Electrical Specifications

Frequency Range	MHz	380 to 512	
Bandwidth	MHz	132	
Connector		7/16 DIN-Female	
Gain (nominal)	dBd (dBi)	10.5 (12.6)	
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Directional	
Horizontal beamwidth (typ)	degrees	90	*1
Vertical beamwidth (typ)	degrees	18	
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	21	*3

Mechanical Specifications

Width	in (mm)	19 (483)	
Depth	in (mm)	8.5 (216)	
Length/ Height	in (mm)	77 (1956)	
Base pipe diameter	in (mm)	2.88 (73)	*4
Radiating element material		prntd circuit bd	
Radome material		UV protected ABS	
Reflector material		aluminum alloy	
Weight	lbs (kg)	46.5 (21.11)	
Weight iced (1/2" ice)	lbs (kg)	68 (30.87)	
Mounting Hardware (Optional)		Clamp170 Kit without DT, Clamp191 with DT	*5
Actual shipping weight	lbs (kg)	61 (27.69)	
Shipping dimensions	in (mm)	82x24x14 (2083x610x356)	

Environmental Specifications

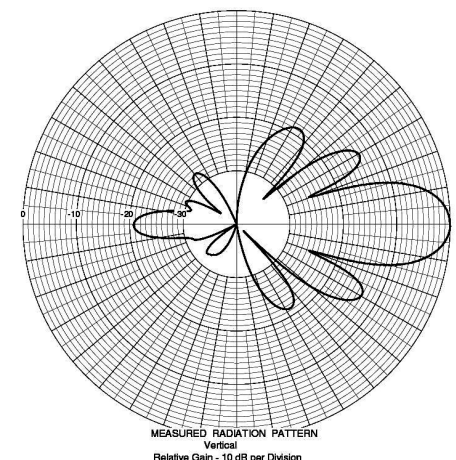
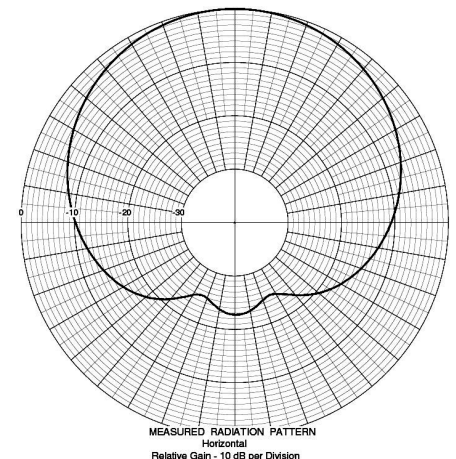
Temperature range	°F (°C)	-40 to +158 (-40 to +70)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	10.1 (0.94)
Wind Loading Area (1/2" ice)	ft² (m²)	10.8 (1)
Rated wind velocity (no ice)	mph (km/h)	135 (217)
Rated wind velocity (1/2" radial ice)	mph (km/h)	110 (177)
Lateral thrust (100 mph No Ice)	lbs (N)	220 (978.6)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	140 (189)

Notes

- *1 : Typical
- *2 : Other tilt available upon request
- *3 : Typical
- *4 : Maximum 4 inches
- *5 : QTY 1 Kit: CLAMP170 & CLAMP191 sold as a pair

Ordering Information

Please contact Sinclair CSR to order regular clamps Clamp170 or mechanical tilt clamps Clamp191.



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