

SP3394X-SF1P65L(ZZ)(DXX-YYY) Radiant™ panel, 9.5 dBd, 4-port X-Pol, 65° HPBW, low PIM, 380-470 MHz

- UHF panel antenna with highly stable pattern over the whole frequency range
- -150dBc PIM rating for low noise characteristics, ideal for modern trunking systems
- Rugged design with fiberglass radome for long life in harsh environment and reliability
- Electrical downtilt available in 0, 5, or 10 degrees

The Radiant™ SP family is Sinclair's next-generation panel antenna. Specifically, the SP33 series is designed for mission-critical applications where reliability and durability are a concern. It provides outstanding gain with a range of flexible configurations for different applications, including various beamwidth, PIP, null fill, etc. The antenna is enclosed in a rugged fiberglass radome for optimal protection against the elements. It is carefully designed and tested so that the electrical performance is highly stable across the whole operating band, which also results in excellent beam control, isolation, upper sidelobe suppression, front-to-back ratio, ensuring the overall performance. The internal components of the antenna are fully DC grounded which offers excellent lightning protection. This antenna also features an industry-leading -150 dBc PIM rating for low noise characteristics, ideal for wideband and trunking systems.

When ordering, please refer to the chart below for the specific part# (subject to different price). Null-filled version is also available. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

Part#	Electric downtilt	PIP*
SP3394X-SF1P65LDF(D00-PIP)	0°	25 kW
SP3394X-SF1P65LDF(D05-PIP)	5°	25 kW
SP3394X-SF1P65LDF(D10-PIP)	10°	25 kW
SP3394X-SF1P65LDF(D00)	0°	-
SP3394X-SF1P65LDF(D05)	5°	-
SP3394X-SF1P65LDF(D10)	10°	-

Note:  
\* PIP: peak instantaneous power



Antenna may not appear exactly as image

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Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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Product Specification Sheet		SP3394X-SF1P65L(ZZ)(DXX-YYY)	Issue: 1	Dated: 01-04-22

### Electrical Specifications

Frequency Range	MHz	380 to 470	
Bandwidth	MHz	90	
Connector		7/16 DIN-Female	*1
Gain (nominal)	dBd (dBi)	9.5 (11.6)	*2
Input VSWR (max)		1.5:1	
Polarization		±45°	
Impedance	Ω	50	
Pattern		Directional	
Horizontal beamwidth (typ)	degrees	65	*3
Vertical beamwidth (typ)	degrees	40	*4
Average Input Power (max)	W	500	*5
Isolation port to port (typ)	dB	30	
Passive intermod. (2x20W, 3rd ord.)	dBc	-150	
USLS, First Lobe (Typ)	dB	15	*6
Front-to-back ratio (Typ)	dB	25	*7
Lightning protection		DC ground	
Electrical tilt (available)		0, 5, or 10 degrees	

### Notes

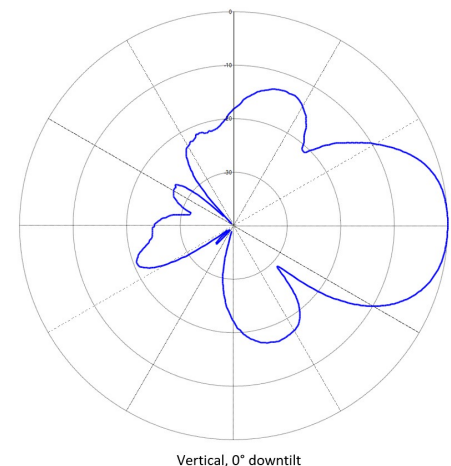
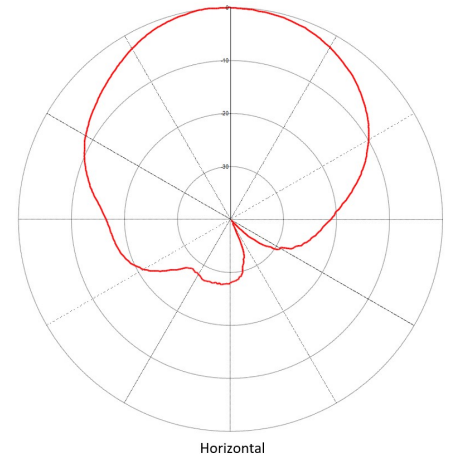
- \*1 : Qty: 4
- \*2 : ±0.5 dB, >= 9 dBd at 380-430 MHz; 10 dBd at 430-470 MHz
- \*3 : ±5°
- \*4 : ±7°
- \*5 : <50°C ambient temperature. 400W @ 50-60°C
- \*6 : ±3 dB
- \*7 : ±5 dB
- \*8 : Excluding bracket
- \*9 : Excluding connector
- \*10: Qty: 1 set, with mechanical downtilt, ranging 0-10°, weight 15 lbs/7 kg.

### Ordering Information

Clamps to be ordered separately.

### Mechanical Specifications

Width	in (mm)	16.7 (424)	
Depth	in (mm)	6.5 (165)	*8
Length/ Height	in (mm)	79.2 (2012)	*9
Radome material		fiberglass (UV protected)	
Reflector material		aluminum	
Weight	lbs (kg)	43.5 (19.75)	
Weight iced (1/2" ice)	lbs (kg)	66 (29.96)	
Mounting configurations		upright	
Mounting Hardware (Optional)		Clamp180M	*10
Actual shipping weight	lbs (kg)	60.5 (27.47)	
Shipping dimensions	in (mm)	83.3x21x12.3 (2116x533x312)	
Radome Colour		Light Gray	



### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	9.2 (0.85)
Wind Loading Area (1/2" ice)	ft² (m²)	9.8 (0.91)
Rated wind velocity (no ice)	mph (km/h)	150 (242)
Rated wind velocity (1/2" radial ice)	mph (km/h)	120 (193)
Lateral Thrust (100 mph No Ice)	lbs (N)	229 (1018.6)

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