





SP33B1V-SWBP90L(ZZ)(DXX-YYY)

Radiant™ panel, 10.5 dBd, 90° HPBW, low PIM, 380-512 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

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). A null-filled version is also available. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

· Part#		Electric downtilt	PIP*
SP33B1V-SWBP90LDF((D00-PIP)	0°	25 kW
SP33B1V-SWBP90LDF(D05-PIP)	5°	25 kW
SP33B1V-SWBP90LDF(10°	25 kW
SP33B1V-SWBP90LDF(0°	-
SP33B1V-SWBP90LDF(5°	-
SP33B1V-SWBP90LDF(10°	-



'PIP: peak instantaneous power



Antenna may not appear exactly as image

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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Product Specificatio	n Sheet	SP33B1V-SWBP90L(ZZ)(DXX-YYY	lssue: 1	Dated: 01-04-22



Antennas
UHF and Tetra Antennas
SP33 Series

A Norsat Company Norsat

Electrical Specifications			
Frequency Range	MHz	380 to 512	
Bandwidth	MHz	132	
Connector		7/16 DIN-Female	
Gain (nominal)	dBd (dBi)	10.5 (12.6)	*1
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Directional	
Horizontal beamwidth (typ)	degrees	90	
Vertical beamwidth (typ)	degrees	18	*2
Average Input Power (max)	W	500	*3
Passive intermod. (2x20W, 3rd ord.)	dBc	-150	
USLS, First Lobe (Typ)	dB	15	
Front-to-back ratio (Typ)	dB	25	
Lightning protection		DC ground	
Electrical tilt (available)		0, 5, or 10 degrees	

Notes

- *1:±1
- *2: ± 10%
- *3: <50°C ambient temperature. 400W @ 50-60°C
- *4 : Excluding bracket
- *5 : Excluding connector
- *6 : Qty: 1 set, with mechanical downtilt, ranging 0-10°, weight 15 lbs/7 kg.

Ordering Information

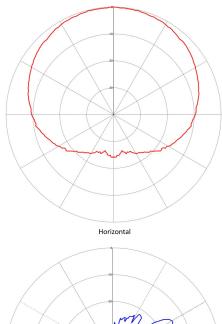
Clamps to be ordered separately.

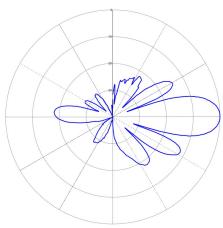
Mechanical Specifications
Width

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Width	in (mm)	16.7 (424)	
Depth	in (mm)	6.5 (165)	*4
Length/ Height	in (mm)	79.2 (2012)	*5
Radome material		Fiberglass (UV resistant)	
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	*6
Actual shipping weight	lbs (kg)	60.5 (27.47)	
Shipping dimensions	in (mm)	83.3x21x12.3 (2116x533x312)	
Radome Colour		Light Gray	

Environmental Specifications

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





Vertical, 0° downtilt

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