

## High Power SPDT Switch

**FRONTGRADE**  
Aethercomm

### High Power SPDT Symmetrical RF Switch SSHPS 2.5-6.0-150

This SSHPS 2.5-6.0-150 is a high power symmetrical SPDT RF switch which is employed in communication systems where high power, low loss and excellent isolation are required. This unit operates across the 2500-6000 MHz range. This switch operates from +28Vdc supply with 300mA maximum current draw. Unit operates from -40°C to +70°C up to 35,000 feet altitude. This switch meets the conditions specified in MIL-STD-202G, Method 213, Test Condition J (30G, 11mS, 18 Shocks - 3 in each of 6 axes). This unit meets the vibration conditions specified in MIL-STD-202G, Method 214A, Test Condition C and test condition 1.

- 150 Watt CW switch
- 2500 to 6000 MHz minimum operation
- 53 dB typical isolation
- 5.0 uSec maximum switching speed
- Operates from a +28 Vdc supply @ 300 mA maximum



*This is a capability example of an Aethercomm product. Aethercomm designs and manufactures high performance, high power CW or pulsed SSPA's for commercial, military and satellite communications customer.*

Parameter	Frequency (MHz)	Min.	Typ.	Max	Units
Insertion Loss (TX to ANT ports)	2500		0.6	2.5	dB
	3000		0.8	2.5	
	4000		1.0	2.5	
	5000		1.0	2.5	
	6000		1.3	2.5	
Isolation (TX to RX ports)	2500-6000	30	53		dB
Return Loss (TX mode, TX in)	2500-3000	10.0	12.0		dB
	3001-4000	10.0	12.0		
	4001-6000	10.0	12.0		
Switching Speed 'ON, 'OFF (50% CTL to within .1dB of insertion loss)	2500-6000		2.0	5.0	uSec
Power Handling, CW All VSWR Condition	2500-6000			150	W Avg.
Supply Current	2500-6000			300	mA

Test Conditions - Ta = +25°C, Supply Voltage = +28Vdc

Aethercomm Inc. reserves the right to make changes without further notice. Aethercomm recommends that before these items herein are specified into a system or critical application that the performance characteristics be verified by contacting the factory.

**Aethercomm, Inc.**

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