

High Power Symmetrical SPDT RF Switch

SSHPS 1.0-2.5-200

This high power RF switch is employed in communication and Electronic Warfare (EW) systems where high power, low loss and excellent isolation are required. Peak power out is 1.0kW maximum. This switch operates from +28 Vdc supply with 500mA maximum current draw. See SCD 70220 for all operating parameters. Unit operates from -40°C to +70°C up to 15,000 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 1 and C.

- 200 Watt CW switch
- 1000 to 2500 MHz minimum operation
- 50 dB typical isolation
- 2 uSec maximum switching speed
- Operates from a +28 Vdc supply @ 500 mA maximum



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

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.

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Insertion Loss	1000		0.4	1.0	dB
	1500		0.7	1.0	
	2000		0.4	1.0	
	2500		0.8	1.0	
Isolation	1000-2500	40	50		dB
Return Loss	1000-2500	10.0	13.0		dB
Switching Speed 'ON', 'OFF (50% CTL to within, .1 dB of insertion loss)	1000-2500		1.5	2	uSec
Power Handling, CW (All VSWR Conditions)	1000-2500		200	200	W Avg.
Power Handling, Pulsed (All VSWR Conditions) (≤80us Pulse Width, ≤10% Duty Cycle)	1000-2500			1	kW Pk.
Supply Current	1000-2500			500	mA

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