

High Power RF Switch



High Power Symmetrical SPDT RF Switch SSHPS 0.020-1.000-200

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 +28Vdc supply with 500mA maximum current draw. Unit operates from -40C to +70C 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 conditions specified in MIL-STD-202G, Method 214A, Test Condition 1 and C.

- 200 Watt CW switch
- 20 to 1000 MHz minimum operation
- 40 dB typical isolation
- 8 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 SSPAs for commercial, military and satellite communications customers.

Parameter	Frequency (MHz)	Min.	Typ.	Max	Units
Insertion Loss	20		0.7	0.85	dB
	100		0.65	0.85	
	250		0.5	0.85	
	500		0.5	0.85	
	1000		0.75	0.85	
Isolation	20-1000	25	40		dB
Return Loss	20-100	10	12.0		dB
	100-250	14	16.0		
	250-500	14	15.0		
	500-1000	14	15.0		
Switching Speed	20-1000		3.0	8.0	uS
Power Handling, CW (All VSWR Conditions)	20-1000		200	200	W Avg.
Power Handling, CW (All VSWR Conditions)	20-1000			1.0	kW Pk.
Supply Current	20-1000		350	500	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.

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