



High Power SPDT Switch

High Power SPDT Symmetrical RF Switch SSHPS/C 0.020-1.000-150

This SSHPS/C 0.020-1.000-150 is a high power symmetrical RF switch/coupler assembly which is employed in electronic warfare systems where high power, low loss and excellent isolation are required. A dual directional coupler is employed to measure forward and reflected power. This unit operates across the 20-1000 MHz range. CW power input is 150W. This switch operates from +28Vdc supply with 500 mA maximum current draw. (Request SCD 70309 for all operating parameters). Unit operates from -40°C to +85°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 also meets the conditions specified in MIL-STD-202G, Method 105C, Test Condition A.

- 150 Watt CW switch
- 20 to 1000 MHz Min. operation
- 45 dB Typ. isolation
- 10.0 uSec Max. switching speed
- Operates from a +28 Vdc supply @ 500 mA Max.
- Integrated Dual Directional Coupler



Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Insertion Loss (TX to ANT ports)	20		0.74	2.5	dB
	100		0.44	2.5	
	500		0.81	2.5	
	800		1.47	2.5	
	1000		1.38	2.5	
Isolation (TX to RX ports)	20-1000	30	45		dB
Return Loss (TX mode, TX in)	20-99	16.0	22		dB
	100-500	15.0	16		
	501-1000	14.0	16		
Switching Speed (ON, OFF) (50% CTL to within .1dB of insertion loss)	20-1000		9.8	10.0	uS
Power Handling, CW All VSWR Condition	20-1000		150	150	W Avg.
	20-1000		150	150	W Avg.
Fwd. Coupled	20-1000	32.5	35.3	37.5	dB
Rev. Coupled	20-1000	32.5	34.5	37.5	dB
Supply Current	20-1000		250	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.