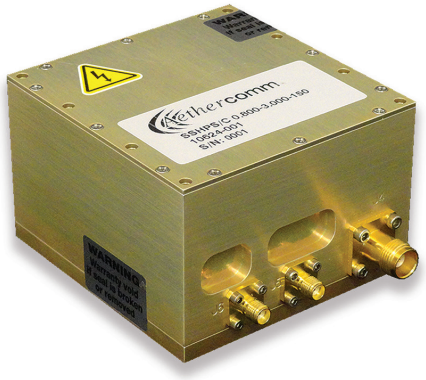
High Power SPDT Switch

High Power SPDT Symmetrical RF Switch

SSHPS/C 0.800-3.000-150

This SSHPS/C 0.800-3.000-150 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 800-3000 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
- 800 to 3000 MHz minimum operation
- 40 dB typical isolation
- 10.0 uSec maximum switching speed
- Operates from a +28 Vdc supply @ 500 mA maximum
- Integrated Dual Directional Coupler



Parameter	Frequency (MHz)	Min.	Typ.	Max	Units
Insertion Loss (TX to ANT ports)	800 1800 1980 2700 3000		1.02 0.62 0.95 1.37 1.33	2.5 2.5 2.5 2.5 2.5	dB
Isolation (TX to RX ports)	800-3000	30	40		dB
Return Loss (TX mode, TX in)	800-1180 1190-1900 1901-3000	9.3 14 12	19 27 18		dB
Switching Speed t_{ON}, t_{OFF} (50% CTL to within .1dB of insertion loss)	800-3000		9.8	10.0	uS
Power Handling, CW	800-3000		150	150	W Avg.
All VSWR Condition	800-3000		150	150	W Avg.
Fwd. Coupled	800-3000	32.5	35.5	37.5	dB
Rev. Coupled	800-3000	32.5	34.6	37.5	dB
Supply Current	800-3000		200	500	mA
Test Conditions - Ta = +25°C, Supply Voltage = +28Vdc					

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