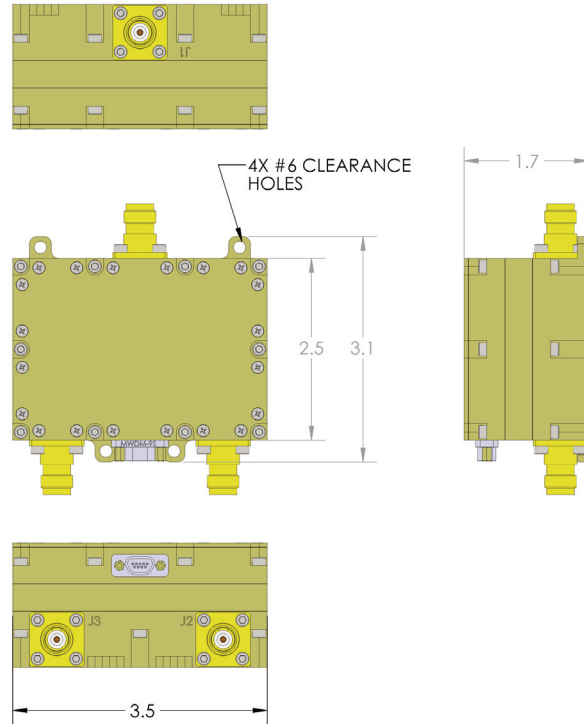




## High Power Symmetrical SPDT RF Switch SSHPS 2.9-3.1-1000

This high power RF switch is employed in Radar systems where high power, low loss and excellent isolation are required. This unit operates in S-Band Maritime Radar frequency range. Peak power out is 1kW maximum. This switch operates from +28Vdc supply with 280mA maximum current draw. See SCD 70216 for all operating parameters. The unit operates from -30C to +70C 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 conditions specified in MIL-STD-202G, Method 214A, Test Condition 1 and C.

- 1000 Watt Pulsed Switch
- 2900 - 3100 MHz minimum Operation
- 59 dB typical Isolation
- 1.5 uSec maximum Switching Speed
- Operates from a +28 Vdc supply @ 230 mA maximum



Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Insertion Loss	2900		0.35	0.45	dB
	3000		0.36	0.45	
	3100		0.37	0.45	
Isolation	2900-3100	48	59.3		dB
Return Loss	2900	20	26.8		dB
	3000		27.0		
	3100		28.2		
Switching Speed <i>t<sub>ON</sub>, t<sub>OFF</sub> (50% CTL to within .1dB of insertion loss)</i>	2900-3100		0.55	1.5	uS
Power Handling, CW (All VSWR Conditions)	2900-3100			100	W Avg.
Power Handling, Pulsed (All VSWR Conditions) <i>(≤80us Pulse Width, ≤10% Duty Cycle)</i>	2900-3100			1.0	kW Pk.
Supply Current	2900-3100		230	280	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.*