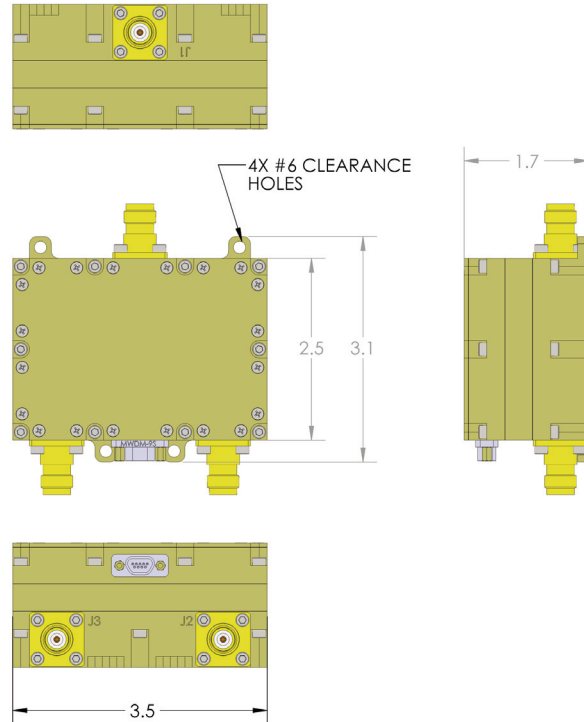




High Power Symmetrical SPDT RF Switch SSHPS 2.7-2.9-1000

This high power RF switch is employed in Radar systems where high power, low loss and excellent isolation are required. This unit operates in a popular civil and military radar frequency range. Peak power out is 1kW maximum. This switch operates from +28Vdc supply with 280mA maximum current draw. See SCD 70218 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 switch also meets the conditions specified in MIL-STD-202G, Method 214A, Test Condition 1 and C.

- 1000 Watt Pulsed Switch
- 2700-2900 MHz minimum Operation
- 56 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	2700		0.35	0.45	dB
	2800		0.36	0.45	
	2900		0.38	0.45	
Isolation	2700-2900	48	58.7		dB
Return Loss	2700	20	25.6		dB
	2800		26.0		
	2900		27.8		
Switching Speed <i>t_{ON}, t_{OFF} (50% CTL to within .1dB of insertion loss)</i>	2700-2900		0.56	1.5	uS
Power Handling, CW (All VSWR Conditions)	2700-2900			100	W Avg.
Power Handling, Pulsed (All VSWR Conditions) <i>(≤80us Pulse Width, ≤10% Duty Cycle)</i>	2700-2900			1.0	kW Pk.
Supply Current	2700-2900		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.