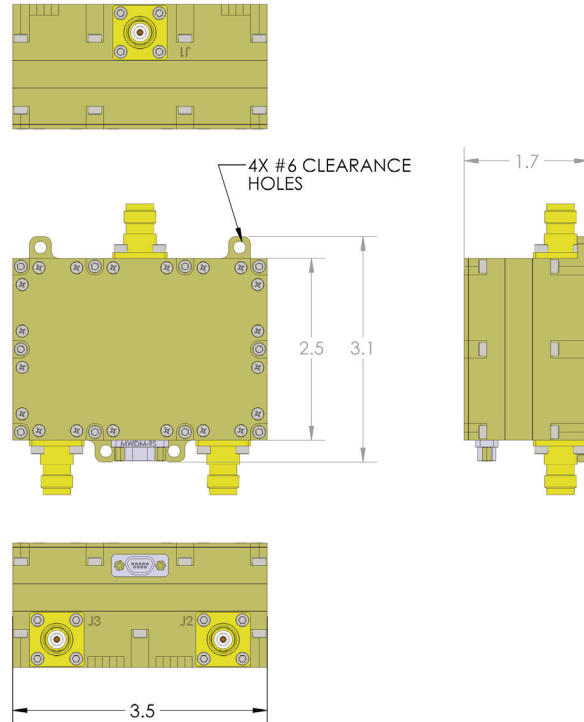




High Power Symmetrical SPDT RF Switch SSHPS 1.2-1.4-4000

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 military radar range. Peak power out is 4kW maximum. This switch operates from +28Vdc supply with 430mA maximum current draw. See SCD 70215 for all operating parameters. 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.

- 4000 Watt Pulsed Switch
- 1200 to 1400 MHz minimum Operation
- 50 dB typical Isolation
- 2 uSec maximum Switching Speed
- Operates from a +28 Vdc supply @ 430 mA maximum



Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Insertion Loss	1200		0.23	0.44	dB
	1300		0.28	0.45	
	1400		0.30	0.45	
Isolation	1200-1400	47	53.7		dB
Return Loss	1200	17	20.6		dB
	1300		20.0		
	1400		21.8		
Switching Speed <i>t_{ON}, t_{OFF} (50% CTL to within .1dB of insertion loss)</i>	1200-1400		1.8	2.0	uS
Power Handling, CW (All VSWR Conditions)	1200-1400			400	W Avg.
Power Handling, Pulsed (All VSWR Conditions) <i>(≤80us Pulse Width, ≤10% Duty Cycle)</i>	1200-1400			4.0	kW Pk.
Supply Current	1200-1400		380	430	mA

Test Conditions - $T_a = +25^{\circ}\text{C}$, 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.