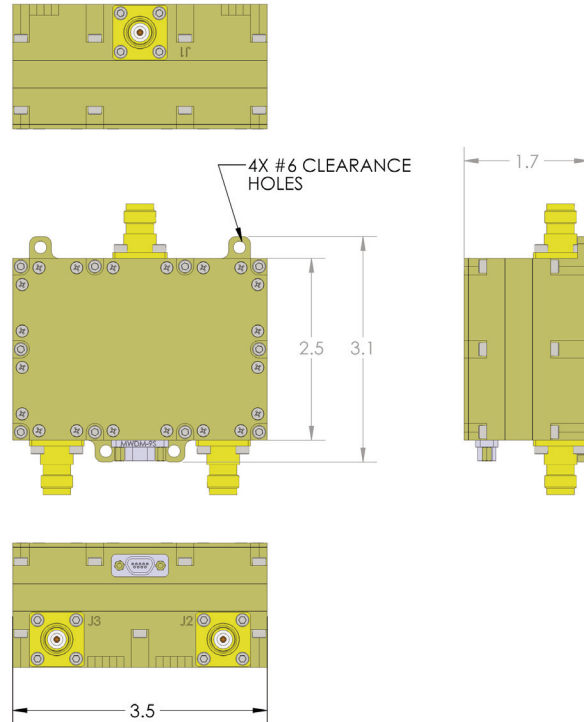




## High Power SPDT Symmetrical RF Switch SSHPS 0.100-0.500-400

This high power symmetrical SPDT RF switch is employed in communication systems where high power, low loss and excellent isolation are required. This unit operates across the military UHF communication range. Peak power out is 1.6kW maximum. This switch operates from +28Vdc supply with 550mA maximum current draw. See SCD 70221 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.

- 400 Watt CW switch
- 100 to 500 MHz minimum operation
- 39 dB typical isolation
- 3.0 uSec maximum switching speed
- Operates from a +28 Vdc supply @ 550 mA maximum



Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Insertion Loss	100		0.34	0.44	dB
	200		0.15	0.44	
	300		0.18	0.44	
	400		0.24	0.44	
	500		0.32	0.44	
Isolation	100-500	32	39		dB
Return Loss	100-150	12.3	13.5		dB
	150-400	17.0	19.0		
	400-500	15.0	17.5		
Switching Speed <i>t<sub>ON</sub>, t<sub>OFF</sub> (50% CTL to within .1dB of insertion loss)</i>	100-500		2.5	3.0	uS
Power Handling, CW	100-500		400	400	W Avg.
		All VSWR Condition	200	200	W Avg.
Power Handling, Pulsed <i>(≤80us Pulse Width, ≤10% Duty Cycle) All VSWR Conditions</i>	100-500			1.6	kW Pk.
Supply Current	100-500		500	550	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.