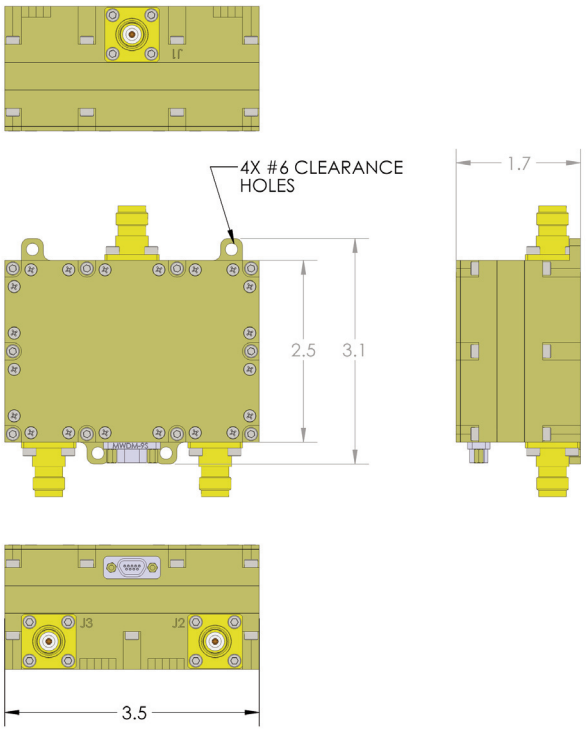
FRONTGRADE Aethercomm

High Power Symmetrical SPDT RF Switch
SSHPS 0.960-1.220-4000

This high power SPDT RF switch is employed in Radio Navigation, Secondary Surveillance Radar (SSR) and military communications systems where high power, low loss and excellent isolation are required. Peak power is 4kW maximum. This switch operates from +28Vdc supply with 430mA maximum current draw. See SCD 70217 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**
- **0.960 to 1220 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	960 1090 1220		0.32 0.31 0.35	0.45 0.45 0.45	dB
Isolation	960-1220	47	53.5		dB
Return Loss	960 1090 1220	18	20.5 20.8 21.0		dB
Switching Speed *t_{ON}, t_{OFF} (50% CTL to within .1dB of insertion loss)*	960-1220		1.8	2.0	uS
Power Handling, CW (All VSWR Conditions)	960-1220			400	W Avg.
Power Handling, Pulsed (All VSWR Conditions) *(≤80us Pulse Width, ≤10% Duty Cycle)*	960-1220			4.0	kW Pk.
Supply Current	960-1220		380	430	mA
Test Conditions - Ta = +25°C, Supply Voltage = +28Vdc					

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