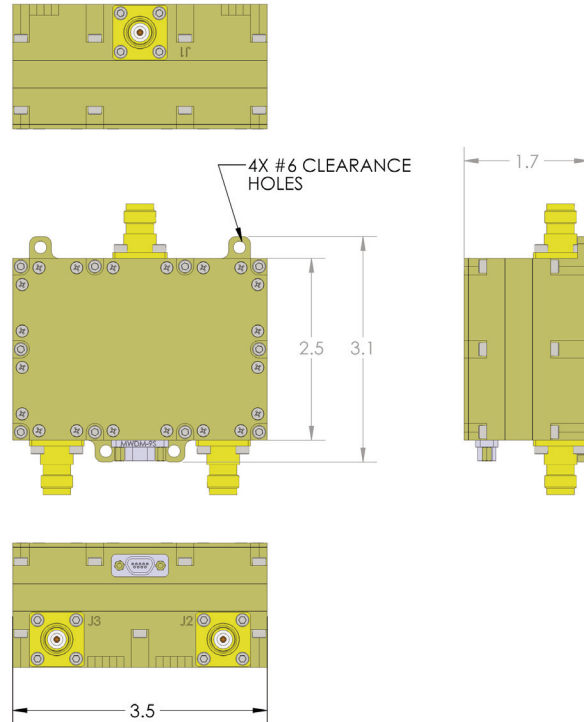




High Power Symmetrical SPDT RF Switch SSHPS 3.1-3.5-1000

This high power RF switch is employed in Radar systems where high power, low loss and excellent isolation are required. This unit is designed for the upper S-Band Radar frequency range. Peak power out is 1kW maximum. This switch operates from +28Vdc supply with 280mA maximum current draw. See SCD 70219 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.

- 1000 Watt Pulsed Switch
- 3100-3500 MHz minimum Operation
- 56 dB typical Isolation
- 1.5 uSec maximum Switching Speed
- Operates from a +28 Vdc supply @ 280 mA maximum



| Parameter | Frequency (MHz) | Min. | Typ. | Max. | Units |
|--|-----------------|------|------|------|--------|
| Insertion Loss | 3100 | | 0.36 | 0.45 | dB |
| | 3300 | | 0.37 | 0.45 | |
| | 3500 | | 0.38 | 0.45 | |
| Isolation | 3100-3500 | 48 | 56.6 | | dB |
| Return Loss | 3100 | 20 | 25.8 | | dB |
| | 3300 | | 24.7 | | |
| | 3500 | | 24.2 | | |
| Switching Speed <i>t_{ON}, t_{OFF} (50% CTL to within .1dB of insertion loss)</i> | 3100-3500 | | 0.57 | 1.5 | uS |
| Power Handling, CW (All VSWR Conditions) | 3100-3500 | | | 100 | W Avg. |
| Power Handling, Pulsed (All VSWR Conditions) <i>(≤80us Pulse Width, ≤10% Duty Cycle)</i> | 3100-3500 | | | 1.0 | kW Pk. |
| Supply Current | 3100-3500 | | 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.