

High Power, SPDT Symmetrical RF Switch

SSHPS 0.020-0.520-400

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. The switch operates from +28 Vdc supply with 550 mA maximum current draw. Unit operates from -30C to +70C up to 35,000 feet altitude. This switch meets the conditions specified in MIL-STD-202G, Method 213, Test Condition J (30G, 11 mS, 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
- 20-520 MHz minimum operation
- 38 dB typical isolation
- 8.0 uSec maximum switching speed
- Operates from a +28 Vdc supply @ 550 mA maximum



This is an example of an Aethercomm standard product. Aethercomm designs and manufactures high performance, high power CW or pulsed SSPA's for commercial, military and satellite communications customer.

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.

SSHPS 0.020-0.520-400 Typical Performance @ 25°C from a +28Vdc Supply

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Insertion Loss	20-520	-	0.65	0.80	dB
Isolation	20-520	30	38	-	dB
Return Loss		9.6	13.0	-	dB
Switching Speed ton, toff (50% CTL to within, 1 dB of insertion loss)	20-520	-	6.5	8.0	uSec
Power Handling, CW (All VSWR Conditions)	20-520	-	400	400	W Avg.
Supply Current	20-520	-	500	550	mA

Test Conditions -Ta= +25°C, Supply Voltage= +28Vdc