

**SPECIFICATION SHEET**  
**JFW MODEL 50S-1841**  
**1P2T SOLID STATE RF SWITCH**

JFW Industries, Inc.  
Phone: 317-887-1340  
sales@jfwindustries.com  
www.jfwindustries.com

Frequency Range	500-3000 MHz
Configuration	1P2T
Impedance	50 Ohms nominal
VSWR	1.3:1 typical 1.5:1 maximum
Insertion Loss	0.50 dB typical 500-1000 MHz 0.75 dB maximum 500-1000 MHz 0.60 dB typical 1000-2000 MHz 0.90 dB maximum 1000-2000 MHz 0.90 dB typical 2000-3000 MHz 1.25 dB maximum 2000-3000 MHz
Isolation	75 dB typical 500-2000 MHz 65 dB minimum 800-2000 MHz 65 dB typical 2000-3000 MHz 55 dB minimum 2000-3000 MHz
Switching Speed	10 microseconds maximum 6 microseconds typical (50% TTL to 10% or 90% RF)
Switching Transients	< 1.0 Vpk-pk typical < 2.0 Vpk-pk maximum (for any rep rate)
RF Input Power	30 Watts average (Hot Switched)
Spurious Noise (Out-of-band)	This switch shall produce: < -73dBm (100-500MHz) < -50dBm (1-100MHz)
	This is to be tested on the common port with J1 and J2 terminated into 50 Ohms.
Control (1 line)	TTL "Low" Common to J1 TTL "High" Common to J2
DC Supply	+15 Vdc @ 80 mA nominal and +5 Vdc @ 40 mA nominal
RF Connector	BNC, SMA, TNC or N female

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Operating Temperature Range      -20°C to +70°C  
Storage Temperature Range        -55°C to +85°C  
Physical Size                        See outline drawing 092-5197



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	08/14/2009		BAC 08/14/2009				