

**SPECIFICATION SHEET****JFW MODEL 50S-1970****1P2T SELF TERMINATING SOLID STATE RF SWITCH**JFW Industries, Inc.  
Phone: 317-887-1340  
sales@jfwindustries.com  
www.jfwindustries.com

Frequency Range	5-3000 MHz
Configuration	1P2T Self Terminating
Impedance	50 Ohms nominal
VSWR	1.3:1 typical 5-3000MHz 1.5:1 maximum 5-3000MHz
Insertion Loss	2.5 dB typical 5-3000MHz 3.5 dB maximum 5-3000MHz
Isolation	80 dB minimum 5-1000 MHz 70 dB minimum 1000-2000 MHz 60 dB minimum 2000-3000 MHz
Switching Speed	10 microseconds (50% TTL to 10% or 90% RF)
RF Input Power	+10 dBm average 5-20MHz +20 dBm average 20-100 MHz +30 dBm average 100-3000 MHz
Control Logic (2 Lines)	TTL "High" (2.0-5.0V) for ON [i.e. C1 High for J1-J3 (common)]  TTL "Low" (0-0.8V) for OFF and internally terminated in 50 Ohms
DC Supply	+5 Vdc @ 50 mA nominal and +24 Vdc @ 50 mA nominal
Repeatability	± 0.05 dB typical
MTBF	745,274 hours
DC Connector	DE-9P
RF Connector	SMA female
Operating Temperature Range	0°C to +70°C
Storage Temperature Range	-55°C to +90°C

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Physical Size

See outline drawing 092-3725-24



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	03/19/2012		BAC 03/19/2012	24968	02/19/2015	C	TRS 02/19/2015
21672	06/21/2012	A	CLK 06/21/2012				
24944	02/17/2015	B	TRS 02/17/2015				