

**SPECIFICATION SHEET**

**JFW MODEL 50S-1971**

**1P4T 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 1P4T 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 (4 Lines) TTL "High" (2.0-5.0V) for ON  
[i.e. C1 High for J1-J5 (common)]  
  
TTL "Low" (0-0.8V) for OFF and internally  
terminated in 50 Ohms

DC Supply +5 Vdc @ 100 mA nominal  
and  
+24 Vdc @ 150 mA nominal

Repeatability ± 0.05 dB typical

MTBF 430,616 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

Physical Size See outline drawing 092-3320

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
21674	06/21/2012	A	CLK 06/21/2012	28481	02/07/2018	D	TRS 02/07/2018
24944	02/17/2015	B	TRS 02/17/2015				