

**SPECIFICATION SHEET**

**JFW MODEL 50SA-181**

**SWITCH ASSEMBLY**

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

Frequency Range	DC-18 GHz
Configuration	Four 1P2T Failsafe Electromechanical RF Switches
Impedance	50 Ohms nominal
VSWR	1.10:1 maximum DC-1 GHz 1.15:1 maximum 1-4 GHz 1.20:1 maximum 4-8 GHz 1.30:1 maximum 8-12 GHz 1.35:1 maximum 12-18 GHz
Insertion Loss	0.10 dB maximum DC-1 GHz 0.15 dB maximum 1-4 GHz 0.20 dB maximum 4-8 GHz 0.30 dB maximum 8-12 GHz 0.35 dB maximum 12-18 GHz
Isolation	85 dB minimum DC-1 GHz 80 dB minimum 1-4 GHz 70 dB minimum 4-8 GHz 65 dB minimum 8-12 GHz 60 dB minimum 12-18 GHz
RF Input Power (cold switched)	400 Watts average DC-200 MHz 300 Watts average 200-500 MHz 200 Watts average 500-1000 MHz 100 Watts average 1-4 GHz 90 Watts average 4-8 GHz 70 Watts average 8-12 GHz 60 Watts average 12-18 GHz
Switching Speed	15 milliseconds (after command is received and processed) (3 milliseconds typical processing time)
Manual Control	Keypad and LCD display
Remote Control	Ethernet (10/100) and RS-232
Remote Commands	Set Switch (SSx y) Read Switch (RSx) Identification (IDN) Change Baud Rate (CBx)
AC Supply	100-240 VAC @ 47-63 Hz

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RF Connector SMA female  
Operating Temperature Range 0°C to +50°C  
Physical Size See outline drawing 092-5404



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	05/03/2007		TRS 05/03/2007	16179	08/07/2008	C	TRS 08/07/2008
15809	05/02/2008	A	TRS 05/02/2008	17968	12/09/2009	D	TRS 12/09/2009
15916	05/28/2008	B	TRS 05/28/2008				