

**SPECIFICATION SHEET**

**JFW MODEL 50SA-491**

**SWITCH ASSEMBLY**

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

Frequency Range	DC-18 GHz
Configuration	16 individually controlled failsafe reflective 1P2T electro-mechanical RF switches (failsafe port is J1)
Enclosure Type	19 inch rack mount @ 3RU high
Startup/Default States (configurable)	RF switches to port J1 at startup (see SWITCH command) DHCP enabled (see NET command) 4 Ethernet users (see NET command) Prompts off (see PROMPT command)
Impedance	50 Ohms nominal
VSWR	1.10:1 maximum DC-1GHz 1.15:1 maximum 1-4GHz 1.20:1 maximum 4-8GHz 1.30:1 maximum 8-12GHz 1.35:1 maximum 12-18GHz
Insertion Loss	0.10 dB maximum DC-1GHz 0.15 dB maximum 1-4GHz 0.20 dB maximum 4-8GHz 0.30 dB maximum 8-12GHz 0.35 dB maximum 12-18GHz
Isolation	85 dB minimum DC-1GHz 80 dB minimum 1-4GHz 70 dB minimum 4-8GHz 65 dB minimum 8-12GHz 60 dB minimum 12-18GHz
RF Input Power (Hot Switched)	1 Watt average
RF Input Power (Cold Switched)	200 Watts average DC-1GHz 100 Watts average 1-4GHz 90 Watts average 4-8GHz 70 Watts average 8-12GHz 60 Watts average 12-18GHz
Switching Speed	15 milliseconds (after command is received and processed) (3 milliseconds typical processing time)
Manual Control	20-Button Keypad and LCD display (IP Address configurable via keypad) (Net mask configurable via keypad) (Gateway configurable via keypad) (Baud rate configurable via keypad)

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Remote Control Ethernet (DHCP, TCP/IP, 10/100, up to 12 users)  
RS-232 (up to 115200 Baud)

Remote Commands RF Switch Control Commands:  
Switch, Set Switch, Read Switch, Set All Switches,  
Read All Switches

System Commands:  
Help, Identification, Store, Recall, Pause, Net,  
Serial, Close, Disconnect, MOTD, Date, Message,  
Restrict, IDENT, Name, Show Users, Reboot, Uptime,  
Prompt

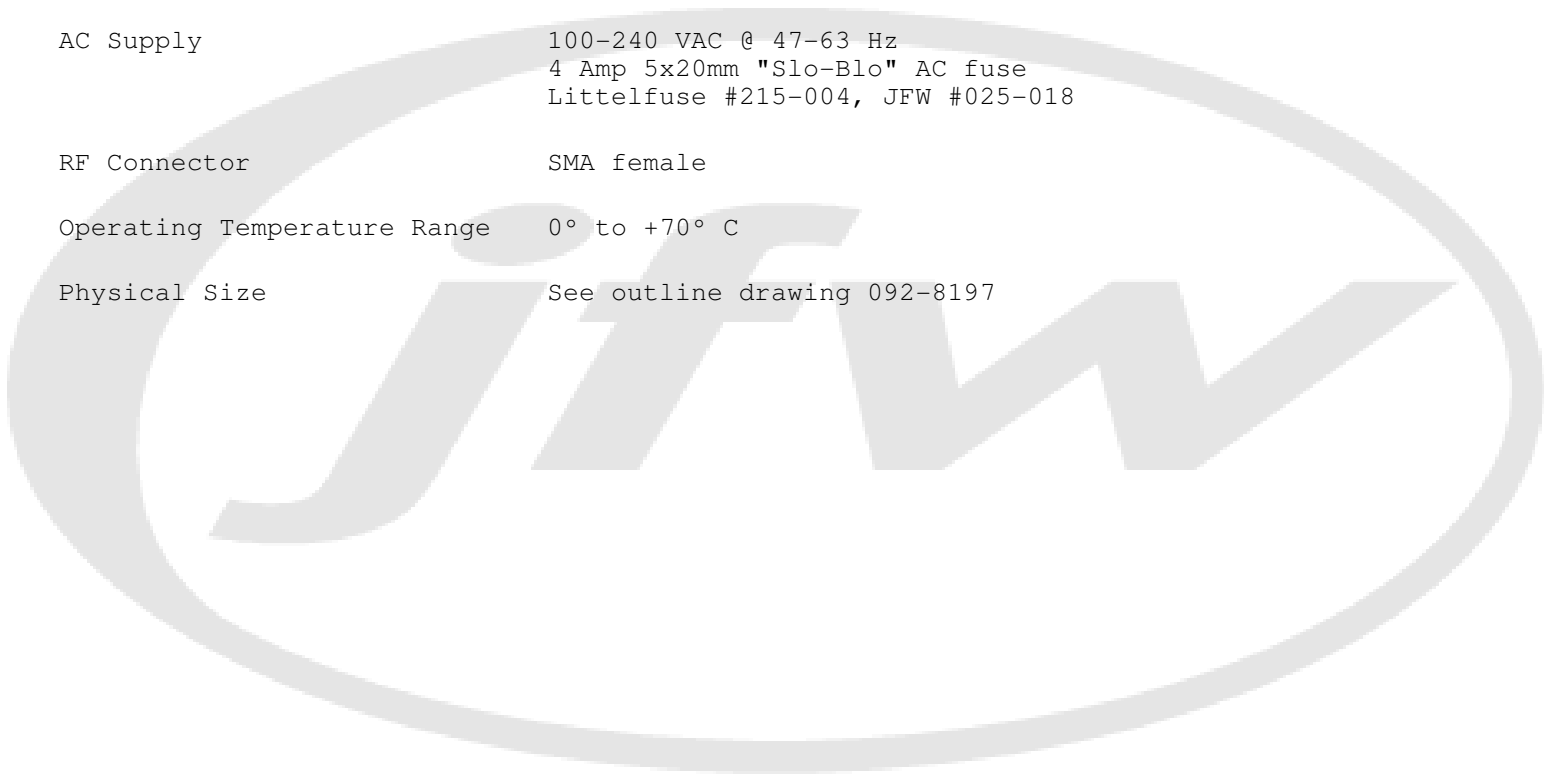
Lifetime (each switch) 1 million operations minimum

AC Supply 100-240 VAC @ 47-63 Hz  
4 Amp 5x20mm "Slo-Blo" AC fuse  
Littelfuse #215-004, JFW #025-018

RF Connector SMA female

Operating Temperature Range 0° to +70° C

Physical Size See outline drawing 092-8197



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	12/08/2014		TRS 12/08/2014				