

**SPECIFICATION SHEET**  
**JFW MODEL 50SA-803-XX**  
**SOLID-STATE SWITCH ASSEMBLY**

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

Frequency Range	20-8400 MHz
Configuration	Individually controlled 1P2T Self-Terminating Solid-State switches. Number of switches (XX) can be selected from 1-8 switches. (i.e. 50SA-803-06 SMA)
Enclosure Type	19 inch rack mount @ 2RU high
Startup/Default States (configurable)	RF Switches startup is J1 (see SWITCH command) DHCP enabled (see NET command) 4 Ethernet users (see NET command) Prompts off (see PROMPT command)  All of these default settings can be changed by user. Unit can be configured for up to 12 Ethernet users.
Impedance	50 Ohms nominal
VSWR	1.4:1 typical 20-4000MHz 1.7:1 typical 4000-8400MHz 2.0:1 maximum 20-8400MHz
Insertion Loss	1.5 dB typical @ 20 MHz 2.0 dB typical @ 2000 MHz 2.5 dB typical @ 4000 MHz 2.7 dB typical @ 6000 MHz 3.5 dB typical @ 8400 MHz 4.5 dB maximum 20-8400 MHz
Isolation	110 dB typical @ 20 MHz 78 dB typical @ 2000 MHz 73 dB typical @ 4000 MHz 67 dB typical @ 6000 MHz 58 dB typical @ 8400 MHz 50 dB minimum 20-8400MHz
RF Input Power	+26 dBm maximum
Switching Speed	10 microseconds (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)
Remote Control	Ethernet (DHCP, TCP/IP, 10/100, up to 12 users) RS-232 (up to 115200 Baud)

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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

RF Connector

SMA female

AC Supply

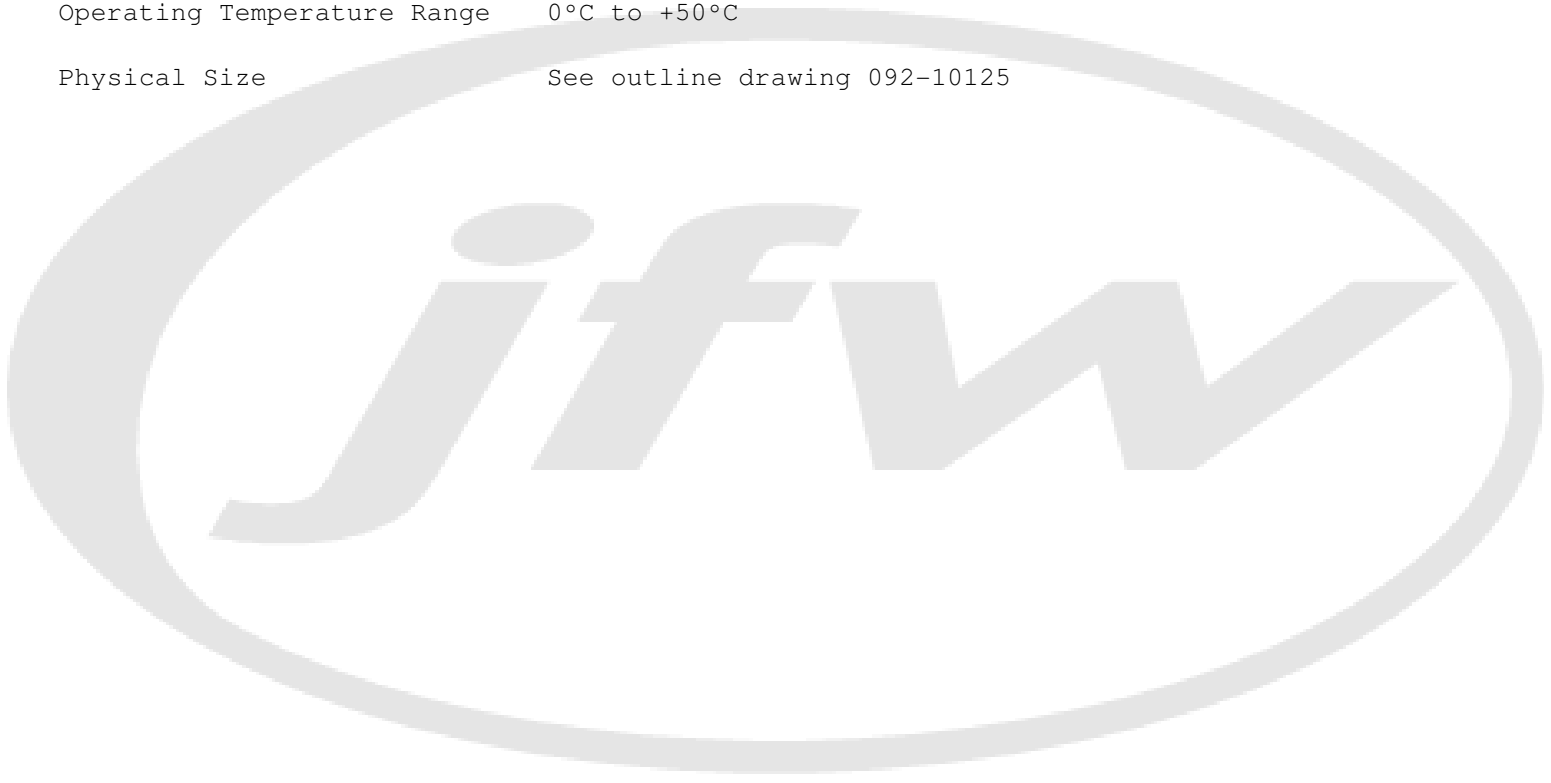
100-240 VAC @ 47-63 Hz

Operating Temperature Range

0°C to +50°C

Physical Size

See outline drawing 092-10125



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	08/10/2023		BAC 08/10/2023				