

SPECIFICATION SHEET

JFW MODEL 50SA-780

SWITCH ASSEMBLY

JFW Industries, Inc.
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Frequency Range	DC-18 GHz
Configuration	9 individually controlled 1P2T failsafe reflective electro-mechanical RF switches (J1 is failsafe port)
Enclosure Type	19 inch rack mount @ 2RU 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-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 (Hot Switched)	1 Watt average
RF Input Power (Cold Switched)	200 Watts average DC-1 GHz 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	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
2 Amp 5x20mm "Slo-Blo" AC fuse
Littelfuse #215-002, JFW #025-021

RF Connector SMA female

Operating Temperature Range 0° to +50° C

Physical Size See outline drawing 092-10042

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	03/20/2023		BAC 03/20/2023				