

SPECIFICATION SHEET

JFW MODEL 50SA-475

SWITCH ASSEMBLY

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

Frequency Range	DC-12.4 GHz
Configuration	2 independent 1P2T failsafe reflective electro-mechanical RF switches w/ N female connectors
Enclosure Type	Benchtop
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) 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	1.15:1 maximum DC-1 GHz 1.20:1 maximum 1-2 GHz 1.25:1 maximum 2-4 GHz 1.35:1 maximum 4-8 GHz 1.50:1 maximum 8-12.4 GHz
Insertion Loss	0.15 dB maximum DC-1 GHz 0.20 dB maximum 1-2 GHz 0.25 dB maximum 2-4 GHz 0.35 dB maximum 4-8 GHz 0.50 dB maximum 8-12.4 GHz
Isolation	85 dB minimum DC-1 GHz 80 dB minimum 1-2 GHz 70 dB minimum 2-4 GHz 65 dB minimum 4-8 GHz 60 dB minimum 8-12.4 GHz
RF Input Power (cold switched)	500 Watts average DC-0.5 GHz 350 Watts average 0.5-1 GHz 250 Watts average 1-2 GHz 150 Watts average 2-4 GHz 120 Watts average 4-8 GHz 100 Watts average 8-12.4 GHz
Switching Speed	20 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)
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
2 Amp 5x20mm "Slo-Blo" AC fuse
Littelfuse #215-002, JFW #025-021

Operating Temperature Range

0°C to +50°C

Physical Size

See outline drawing 092-8105



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	09/29/2014		TRS 09/29/2014				
24239	07/16/2015	A	TRS 07/16/2015				