

SPECIFICATION SHEET

JFW MODEL 50SA-197

SWITCH ASSEMBLY

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

Frequency Range	DC-12.4 GHz
Configuration	8 individually controlled 1P3T normally open reflective electro-mechanical RF switches
Enclosure Type	19 inch rack mount @ 4RU high
Startup/Default States (configurable)	RF switches off 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-30MHz 1.25:1 maximum 30-4000MHz 1.35:1 maximum 4-8GHz 1.70:1 maximum 8-12.4GHz
Insertion Loss	0.10 dB maximum DC-30MHz 0.30 dB maximum 30-4000MHz 0.40 dB maximum 4-8GHz 0.70 dB maximum 8-12.4GHz
Isolation	70 dB minimum DC-4GHz 60 dB minimum 4-8GHz 55 dB minimum 8-12.4GHz
RF Input Power (Cold Switched)	2500 Watts average DC-30MHz 1000 Watts average 30-500MHz 500 Watts average 500-2000MHz 350 Watts average 2-4GHz 250 Watts average 4-8GHz 200 Watts average 8-12.4GHz
Switching Speed	20 milliseconds (after command is received and processed) (3 milliseconds typical processing time)
Lifetime	1 million operations minimum per switch
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

AC Supply

100-240 VAC @ 47-63 Hz
2 Amp 5x20mm "Slo-Blo" AC fuse
Littelfuse #215-002, JFW #025-021

RF Connector

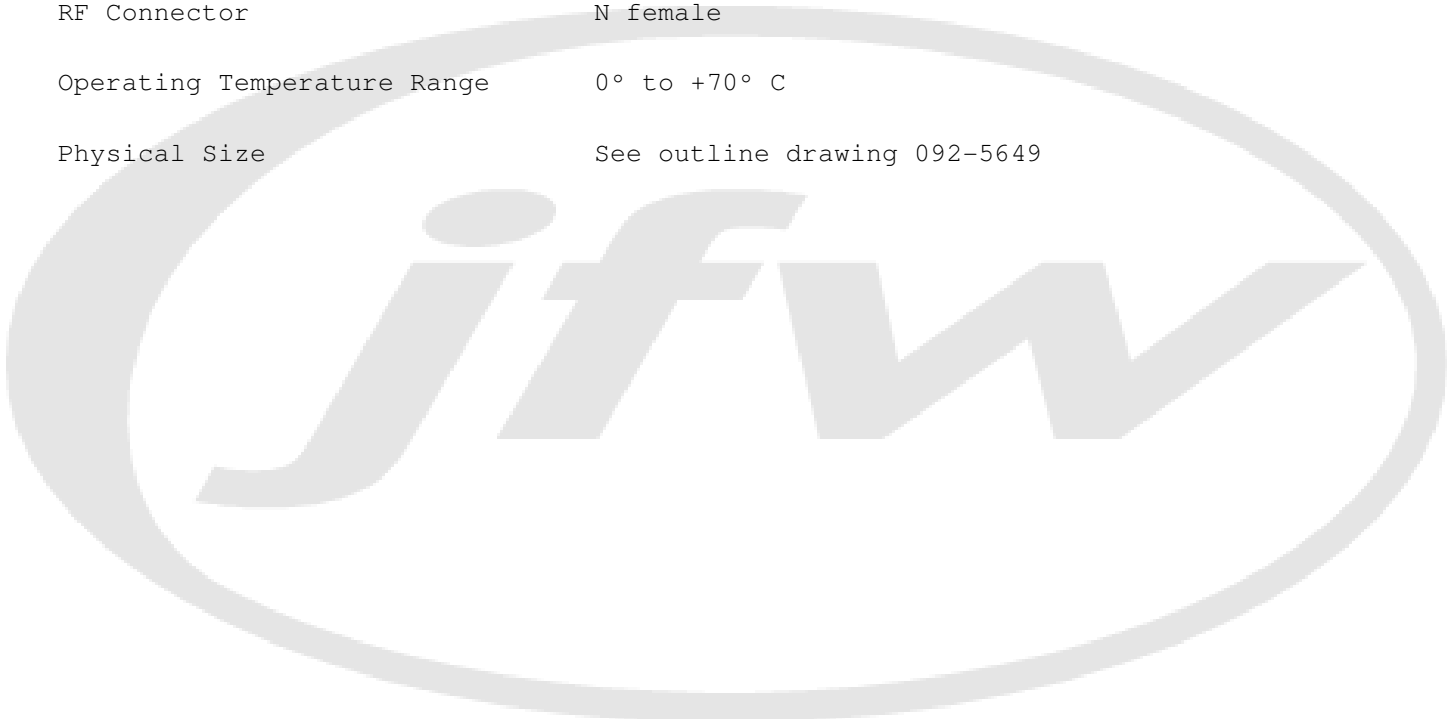
N female

Operating Temperature Range

0° to +70° C

Physical Size

See outline drawing 092-5649



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	11/29/2007		BAC 11/29/2007	16179	08/07/2008	C	TRS 08/07/2008
15808	05/02/2008	A	TRS 05/02/2008	23179	08/23/2013	D	TRS 08/23/2013
15916	05/28/2008	B	TRS 05/28/2008	24239	12/08/2014	E	TRS 12/08/2014