

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

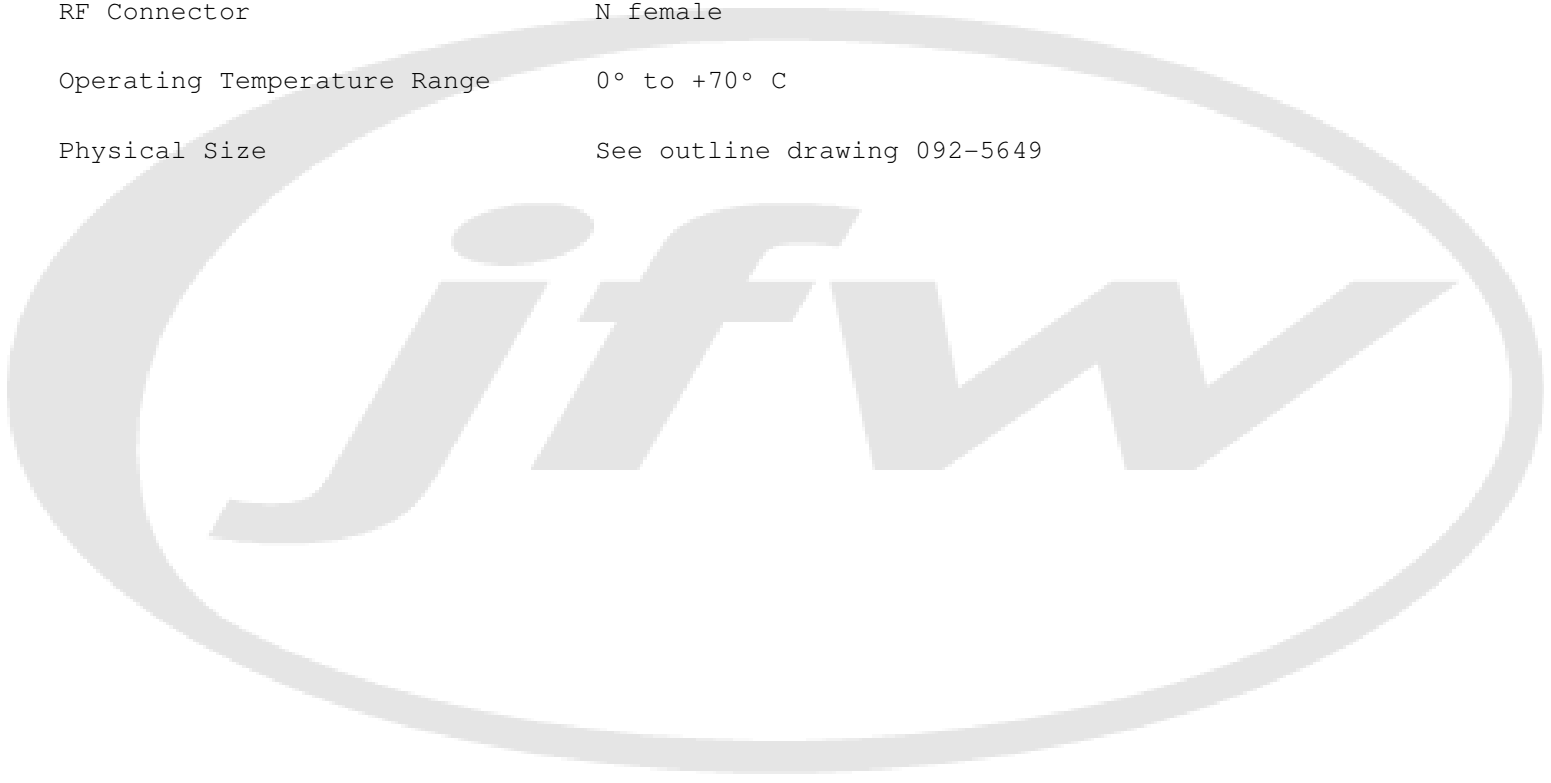
N female

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 |