

SPECIFICATION SHEET**JFW MODEL 50SA-271****SWITCH ASSEMBLY**

JFW Industries, Inc.

Phone: 317-887-1340

sales@jfwindustries.com

www.jfwindustries.com

| | |
|---------------------------------------|---|
| Frequency Range | DC-18 GHz |
| Configuration | Four Individually controlled 1P6T Electro-mechanical Self-Terminating RF Switches |
| Enclosure Type | 19 inch rack mount @ 2RU high |
| Startup/Default States (configurable) | All 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 | 1.2:1 maximum DC-4 GHz 1.3:1 maximum 4-8 GHz 1.4:1 maximum 8-12.4 GHz 1.5:1 maximum 12.4-18 GHz |
| Insertion Loss | 0.2 dB maximum DC-4 GHz 0.3 dB maximum 4-8 GHz 0.4 dB maximum 8-12.4 GHz 0.5 dB maximum 12.4-18 GHz |
| Isolation | 80 dB minimum DC-4 GHz 75 dB minimum 4-8 GHz 65 dB minimum 8-12.4 GHz 60 dB minimum 12.4-18 GHz |
| RF Input Power (cold switched) | 500 Watts average DC-100 MHz 400 Watts average 100-200 MHz 300 Watts average 200-500 MHz 200 Watts average 500-1000 MHz 100 Watts average 1-4 GHz 90 Watts average 4-8 GHz 70 Watts average 8-12.4 GHz 60 Watts average 12.4-18 GHz (*Internal Terminations rated at 2 Watts average) |
| 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) |
| 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

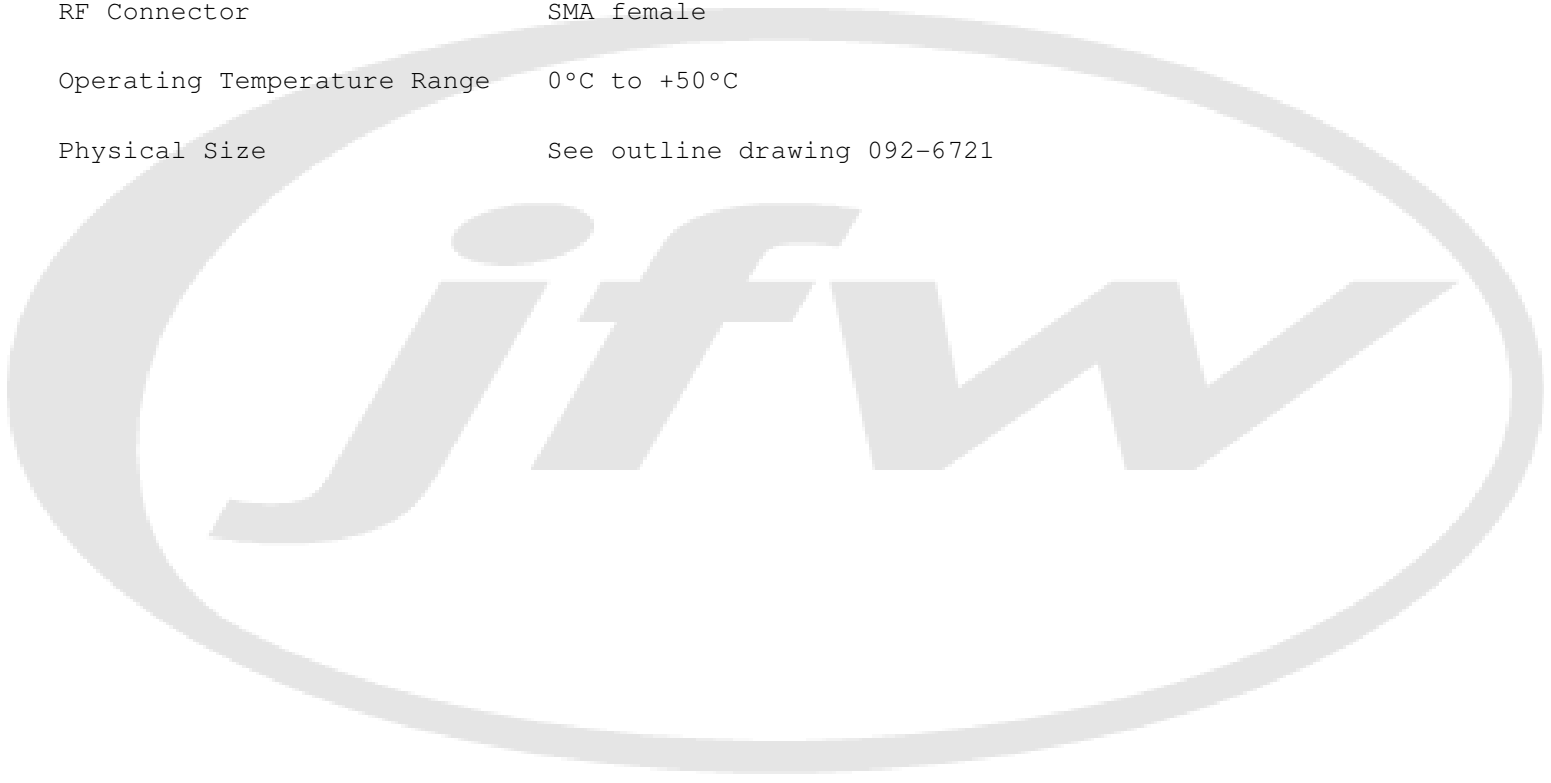
SMA female

Operating Temperature Range

0°C to +50°C

Physical Size

See outline drawing 092-6721



| ECR/ECN # | DATE | REV | APPR / DATE | ECR/ECN # | DATE | REV | APPR / DATE |
|-----------|------------|-----|----------------|-----------|------|-----|-------------|
| | 09/23/2010 | | BAC 09/23/2010 | | | | |
| 24758 | 12/03/2014 | A | TRS 12/03/2014 | | | | |
| 33307 | 04/11/2024 | B | BAC 04/11/2024 | | | | |