

SPECIFICATION SHEET

JFW MODEL 50MS-313

4x4 NON-BLOCKING SOLID STATE MATRIX SWITCH

JFW Industries, Inc.
Phone: 317-887-1340
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| | |
|--|---|
| Frequency Range | 700-3000 MHz |
| Configuration | 4 x 4 Non-Blocking Solid-State Matrix (see block diagram 092-7494) (Unused input ports are self-terminating) (Unused output ports are self-terminating) (all ports are bi-directional) (the ADMIN password is located on rear panel) |
| Startup/Default States (configurable) | All ports off at startup (see MATRIX 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. |
| Enclosure Type | 19 inch rack mount @ 3RU high |
| Impedance | 50 Ohms nominal |
| VSWR | 1.5:1 typical / 1.7:1 maximum |
| Insertion Loss | 10 dB nominal @ 700MHz 12 dB nominal @ 3000MHz |
| Isolation | Output to Output - 80 dB typical (Set to Diff INs) - 60 dB minimum Output to Output - 28 dB typical (Set to Same IN) - 20 dB minimum Input to Output - 80 dB typical (Path OFF) - 60 dB minimum Input to Input - 80 dB typical - 60 dB minimum |
| RF Input Power | +30 dBm maximum |
| Switching Speed | 10 microseconds (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

Matrix Commands:

Matrix, Set Input, Set Output, Read Input, Read Output, Read All Inputs, Read All Outputs, Read Matrix Paths

System Commands:

Help, Identification, Store, Recall, Pause, Net, Serial, Close, Disconnect, MOTD, Date, Message, Restrict, IDENT, Name, Show Users, Reboot, Uptime, Prompt

RF Connector

N female

AC Supply

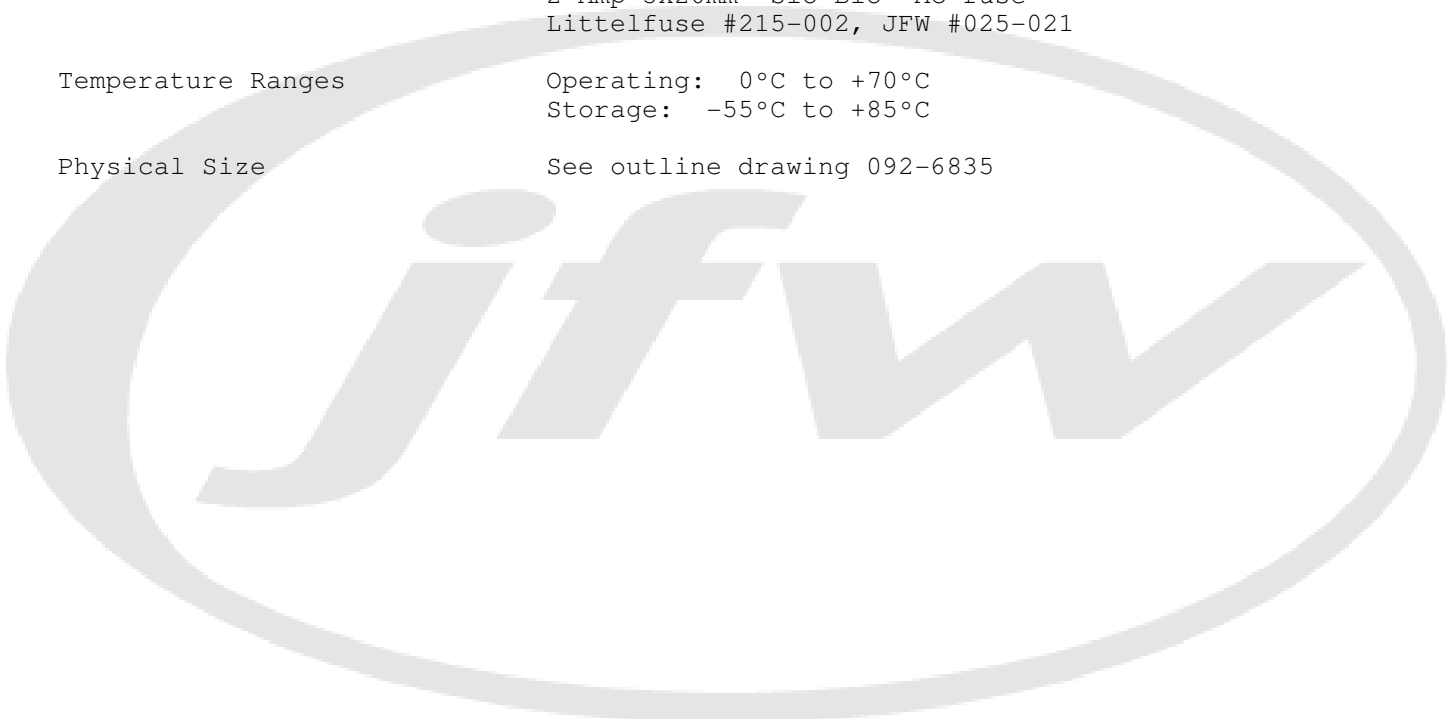
100-240 VAC @ 47-63 Hz
2 Amp 5x20mm "Slo-Blo" AC fuse
Littelfuse #215-002, JFW #025-021

Temperature Ranges

Operating: 0°C to +70°C
Storage: -55°C to +85°C

Physical Size

See outline drawing 092-6835



| ECR/ECN # | DATE | REV | APPR / DATE | ECR/ECN # | DATE | REV | APPR / DATE |
|-----------|------------|-----|----------------|-----------|------|-----|-------------|
| | 10/23/2012 | | BAC 10/23/2012 | | | | |
| 24239 | 04/28/2015 | A | BAC 04/28/2015 | | | | |