

**SPECIFICATION SHEET**

**JFW MODEL 50MS-291**

**MATRIX SWITCH**

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

Frequency Range	700-3000 MHz
Configuration	12 x 8 Blocking Solid-State Matrix Switch (See block diagram 092-7180) (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 @ 6RU high
Impedance	50 Ohms nominal
VSWR	1.6:1 maximum 1.5:1 typical
Insertion Loss	14 dB maximum
Isolation	Output to Output - 70 dB typical (Set to same input) - 60 dB minimum  Input to Output - 70 dB typical (Output OFF) - 60 dB minimum  Input to Input - 70 dB typical - 60 dB minimum
RF Input Power	+20 dBm average
Switching Speed	20 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

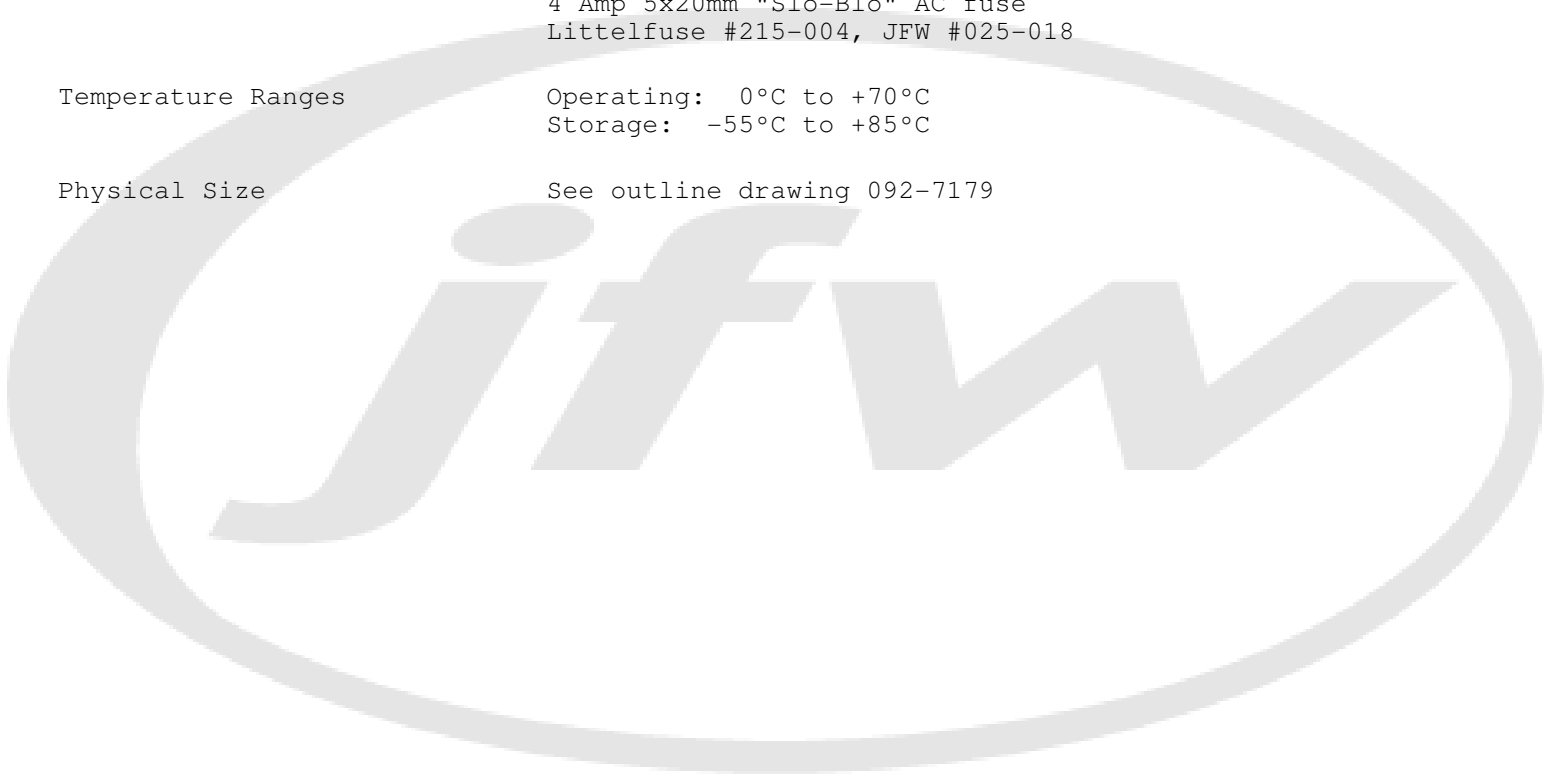
100-240 VAC @ 47-63 Hz  
4 Amp 5x20mm "Slo-Blo" AC fuse  
Littelfuse #215-004, JFW #025-018

Temperature Ranges

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

Physical Size

See outline drawing 092-7179



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	12/27/2011		CLK 12/27/2011				
21887	09/06/2012	A	TRS 09/06/2012				
24239	07/15/2015	B	TRS 07/15/2015				