

## **SPECIFICATION SHEET**

**JFW MODEL 50MS-313**

**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 Switch (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 (Set to Diff INs) - 80 dB typical - 60 dB minimum  Output to Output (Set to Same IN) - 28 dB typical - 20 dB minimum  Input to Output (Path OFF) - 80 dB typical - 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				