

**SPECIFICATION SHEET**

**JFW MODEL 50MS-334**

**BLOCKING SOLID STATE MATRIX SWITCH**

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

Frequency Range	700-3000 MHz
Configuration	2 x 12 Blocking Solid-State Matrix (See block diagram 092-8811) (Unused input ports self-terminating) (Unused output ports 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 / 1.8:1 maximum
Insertion Loss	4.0 dB typical @ 700MHz 6.5 dB typical @ 3000MHz
Isolation	Input to Input           - 70 dB typical - 60 dB minimum  Output to Output       - 70 dB typical - 60 dB minimum  Input to Output         - 70 dB typical - 60 dB minimum
RF Input Power	+30 dBm average
Switching Speed	50 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 092-8164



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	11/17/2014		BAC 11/17/2014				
24239	07/14/2015	A	TRS 07/14/2015				
27728	04/19/2017	B	TRS 04/19/2017				