

## **SPECIFICATION SHEET**

**JFW MODEL 50MS-467**

**BLOCKING MATRIX SWITCH**

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

Frequency Range	DC-18 GHz
Configuration	4 x 6 Blocking Electro-Mechanical Matrix Switch (Unused input ports are terminated) (Unused output ports are terminated) (all ports are bi-directional) (see block diagram 092-10462) (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	Typical: 1.1:1 typical DC-4GHz 1.3:1 typical 4-8GHz 1.5:1 typical 8-12.4GHz 1.8:1 typical 12.4-18GHz  Maximum: 1.5:1 maximum DC-8GHz 2.0:1 maximum 8-18GHz
Insertion Loss	Typical: 1.25dB typical DC-4GHz 1.75dB typical 4-8GHz 2.50dB typical 8-12.4GHz 3.00dB typical 12.4-18GHz  Maximum: 2.25dB maximum DC-8GHz 3.50dB maximum 8-18GHz
Isolation	Typical: 90dB typical DC-8GHz 80dB typical 8-18GHz  Minimum: 70 dB minimum DC-4GHz 65 dB minimum 4-8GHz 60 dB minimum 8-18GHz
RF Input Power	50 Watts average (cold switched) 1 Watt average (hot switched)

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Switching Speed 20 milliseconds  
(after command is received and processed)  
(3 milliseconds typical processing time)

Remote Control Ethernet (DHCP, TCP/IP, 10/100, up to 12 users)  
RS-232 (up to 115200 Baud)

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

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)

RF Connector N or SMA

AC Supply 100-240 VAC @ 47-63 Hz

Operating Temperature Range 0° to +70° C

Physical Size See outline drawing 092-10293

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	05/16/2024		BAC 05/16/2024				
34122	05/06/2025	A	TRS 05/06/2025				