SPECIFICATION SHEET

JFW MODEL 50MS-460

MATRIX SWITCH

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

Frequency Range	350-6000 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	1.7:1 typical / 2.0:1 maximum
Insertion Loss	9.4 dB typical @ 350 MHz 11.2 dB typical @ 3000 MHz 13.1 dB typical @ 6000 MHz
Isolation	Output to Output (Set to same input) - 15 dB typical (350-500 MHz) - 14 dB minimum (350-500 MHz) - 25 dB typical (500-6000 MHz) - 20 dB minimum (500-6000 MHz) Output to Output (Set to diff inputs) - 75 dB typical - 60 dB minimum Input to Output - 75 dB typical - 60 dB minimum Input to Input - 75 dB typical - 60 dB minimum
RF Input Power	+30 dBm (input ports) +27 dBm (output ports)
Switching Speed	10 microseconds typical (after command is received and processed) (3 milliseconds typical processing time)

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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)
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 or SMA female
AC Supply	100-240 VAC @ 47-63 Hz
Temperature Ranges	Operating: 0°C to +70°C Storage: -55°C to +85°C
Physical Size	See outline drawing: 092-9243 (SMA) 092-6835 (N)

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	04/15/2024		BAC 04/15/2024				