

SPECIFICATION SHEET

JFW MODEL 50MS-455

MATRIX SWITCH

JFW Industries, Inc.

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Frequency Range	DC-26.5 GHz
Configuration	4 x 4 Blocking Electro-Mechanical Matrix Switch (See block diagram 092-7300) (Unused input ports are terminated) (Unused output ports are terminated) (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	Typical: 1.1:1 typical DC-4GHz 1.2:1 typical 4-8GHz 1.4:1 typical 8-12.4GHz 1.5:1 typical 12.4-18GHz 1.9:1 typical 18-26.5GHz Maximum: 1.4:1 maximum DC-8GHz 1.8:1 maximum 8-18GHz 2.2:1 maximum 18-26.5GHz
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 5.50dB typical 18-26.5GHz Maximum: 2.50dB maximum DC-8GHz 3.75dB maximum 8-18GHz 6.50dB maximum 18-26.5GHz
Isolation	Typical: 100 dB typical DC-8GHz 90 dB typical 8-18GHz 80 dB typical 18-26.5GHz Minimum: 80 dB minimum DC-18GHz 70 dB minimum 18-26.5GHz

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RF Input Power 50 Watts average (cold switched)
1 Watt average (hot switched)

Switching Speed 20 milliseconds
(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)

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 3.5MM female

AC Supply 100-240 VAC @ 47-63 Hz

Operating Temperature Range 0° to +70° C

Physical Size See outline drawing 092-9243-01

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	02/14/2024		BAC 02/14/2024				