Frequency Range	1-18 GHz
Configuration	4 x 4 Non-Blocking Matrix (See block diagram 092-7494) (Unused input ports are self-terminating) (Unused output ports are reflective) (all ports are bi-directional) (the ADMIN password is located on rear panel)
Enclosure Type	19 inch rack mount @ 3RU high
Impedance	50 Ohms nominal
VSWR	1.8:1 typical / 2.5:1 maximum
Insertion Loss	9.8 dB typical @ 1 GHz 12.0 dB typical @ 8 GHz 15.0 dB typical @ 18 GHz 18.0 dB maximum 1-18GHz
Isolation	Input to Input - 70 dB minimum Input to Output - 70 dB minimum Output to Output - 18 dB minimum (If connected to same Input) Output to Output - 70 dB minimum (If connected to different Inputs)
RF Input Power	+30 dBm (IN ports) +27 dBm (OUT ports)
Switching Speed	100 nanoseconds (After command is received and processed) (3 millisecond 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

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SPECIFICATION SHEET

JFW MODEL 50MS-465
SOLID STATE MATRIX SWITCH

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.
RF Connectors	SMA or N female
AC Supply	100-240 VAC @ 47-63 Hz
Operating Temperature Range	0°C to +50°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		

JFW FORM E-7-F REV F