Frequency Range	5-1218 MHz
Configuration	8 x 8 Non-Blocking Electro-Mechanical Matrix Switch (unused input ports are self-terminating) (unused output ports are self-terminating) (all ports are bi-directional) (see block diagram 092-2886)
Enclosure Type	19 inch rack mount @ 6RU
Impedance	75 Ohms nominal
RF Connector	F female
VSWR	1.9:1 maximum < 1.5:1 typical
Insertion Loss	16.5 dB maximum 10.4 dB typical @ 5 MHz 12.5 dB typical @ 1218 MHz

Isolation	Input to Input: 60 dB minimum
	                              >70 dB typical
	
	Input to Output: 60 dB minimum
	                              >70 dB typical
	
	Output to Output: 60 dB minimum
	(Set to diff inputs) >70 dB typical
	
	Output to Output: 18 dB minimum
	(Set to same input) 22 dB typical

RF Input Power	+20 dBm
Switching Speed	10 milliseconds typical (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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SPECIFICATION SHEET

JFW Industries, Inc.
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JFW MODEL 75MS-052

MATRIX SWITCH

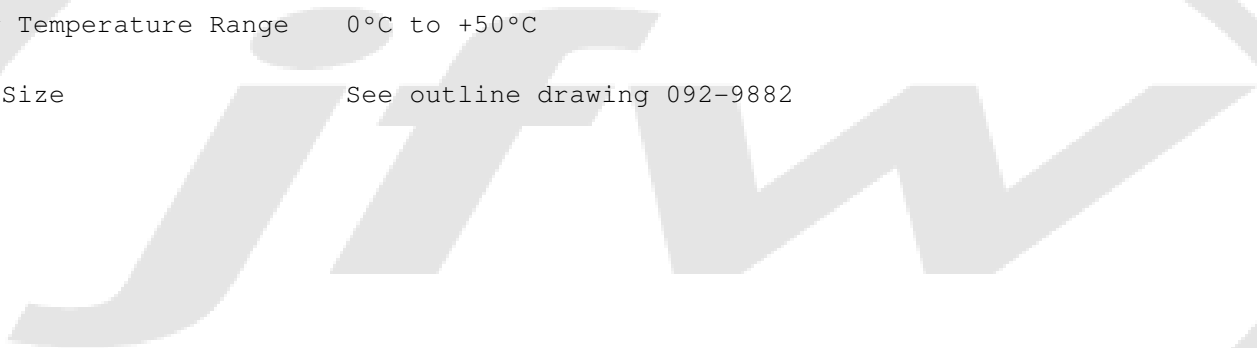|	
Remote Commands	Matrix Commands: Matrix, Set Input, Set Output, Read Input, Read Output, Read All Inputs, Read All Outputs, Read Matrix Paths
	System Commands: Help, Identification, Store, Recall, Pause, Net,Serial, Close, Disconnect, MOTD, Date,Message,Restrict, IDENT, Name, Show Users, Reboot, Uptime, Prompt
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.
AC Supply	100-240 VAC @ 47-63 Hz
Operating Temperature Range	0°C to +50°C
Physical Size	See outline drawing 092-9882

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	10/05/2021		TRS 10/05/2021				
31778	05/13/2022	A	TRS 05/13/2022				
32047	08/02/2022	B	TRS 08/02/2022				