

SPECIFICATION SHEET

JFW MODEL 50MS-299

MATRIX SWITCH

JFW Industries, Inc.

Phone: 317-887-1340

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www.jfwindustries.com

Frequency Range	700-3000 MHz
Configuration	8 x 4 Non-Blocking Solid-State Matrix Switch (See block diagram 092-7366) (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 @ 5RU high
Impedance	50 Ohms nominal
VSWR	1.4:1 typical 1.6:1 maximum
Insertion Loss	8.5 dB typical @ 700MHz 10.5 dB typical @ 3000MHz
Isolation	Output to Output - 30 dB typical (Set to same input) - 25 dB minimum Output to Output (Set to diff inputs) - 90 dB typical - 60 dB minimum Input to Output - 90 dB typical - 60 dB minimum Input to Input - 70 dB typical - 60 dB minimum
RF Input Power	+20 dBm average +27 dBm (no damage)
Switching Speed	20 microseconds (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)

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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

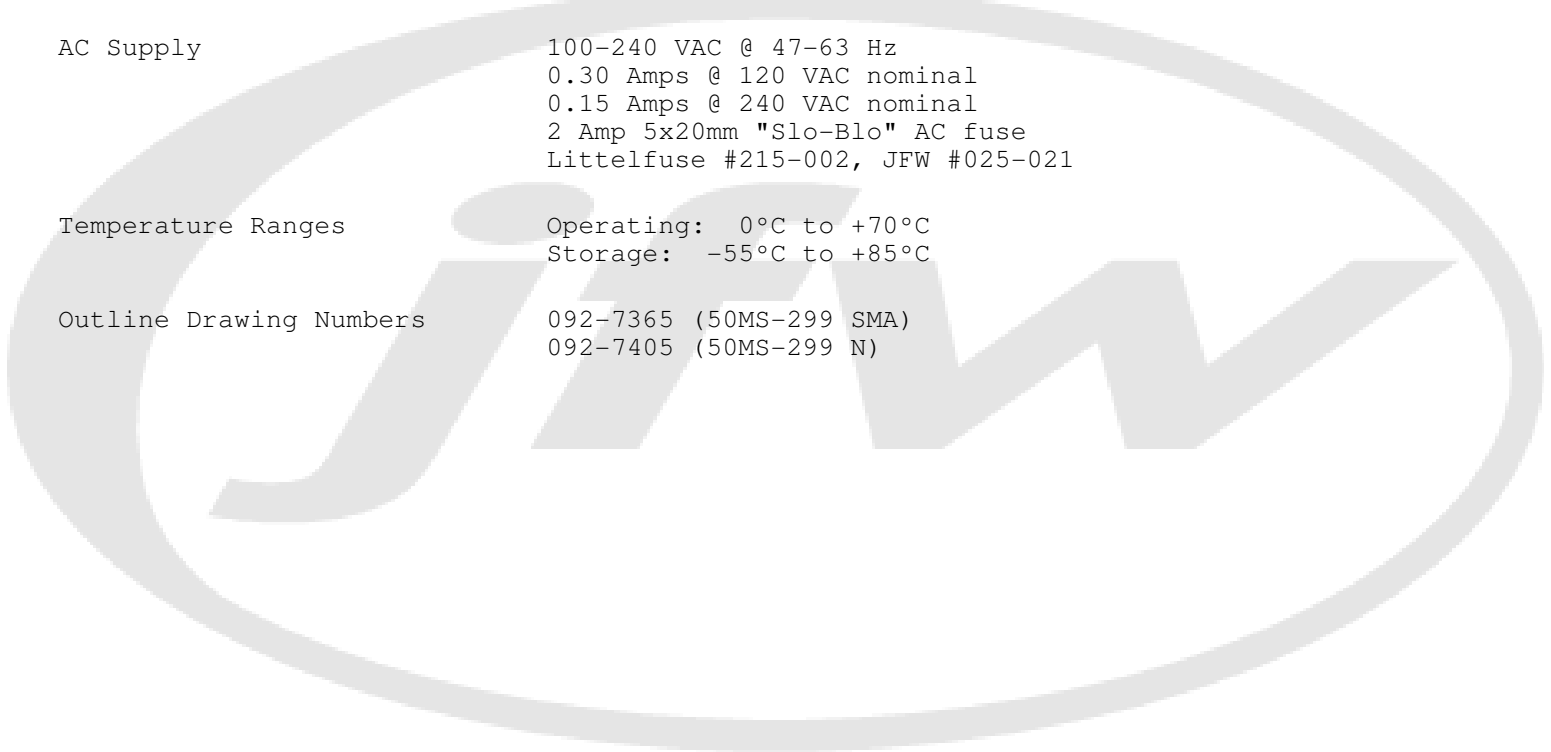
System Commands:
Help, Identification, Store, Recall, Pause, Net, Serial, Close, Disconnect, MOTD, Date, Message, Restrict, IDENT, Name, Show Users, Reboot, Uptime, Prompt

RF Connector N female or SMA female

AC Supply 100-240 VAC @ 47-63 Hz
0.30 Amps @ 120 VAC nominal
0.15 Amps @ 240 VAC nominal
2 Amp 5x20mm "Slo-Blo" AC fuse
Littelfuse #215-002, JFW #025-021

Temperature Ranges Operating: 0°C to +70°C
Storage: -55°C to +85°C

Outline Drawing Numbers 092-7365 (50MS-299 SMA)
092-7405 (50MS-299 N)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	05/31/2012		BAC 05/31/2012				
21702	07/05/2012	A	BAC 07/05/2012				
24239	07/15/2015	B	TRS 07/15/2015				