

SPECIFICATION SHEET
JFW MODEL 50MS-298
SOLID STATE MATRIX SWITCH

JFW Industries, Inc.
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Frequency Range	700-3000 MHz
Configuration	24 x 6 Non-Blocking Matrix Switch with Six Programmable Attenuators on the Six Output Ports (See block diagram 092-7350) (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)
Enclosure Type	19 inch rack mount @ 8RU high
Impedance	50 Ohms nominal
VSWR	1.5:1 typical 1.8:1 maximum
Insertion Loss	23 dB typical 700-1500MHz 25 dB typical 1500-3000MHz 28 dB maximum 700-3000MHz
Isolation	Input to Input (Set to same output) - 20 dB minimum - 25 dB typical Input to Input (Set to diff outputs) - 60 dB minimum - 75 dB typical Input to Output - 60 dB minimum - 75 dB typical Output to Output - 60 dB minimum - 75 dB typical
Attenuation Range	0-127 dB in 1 dB steps (Six individually controlled units, one on each output)
Attenuation Accuracy	± 0.50 dB or 2% of programmed (nominal) ± 0.75 dB or 2% of programmed (maximum) (Whichever is greater) (Guaranteed Monotonic)
RF Input Power	+20 dBm average +27 dBm (no damage)
Switching Speed	100 microseconds (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 female
AC Supply	100-240 VAC @ 47-63 Hz 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
Physical Size	See outline drawing 092-7349

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	05/14/2012		BAC 05/14/2012				
24239	07/15/2015	A	TRS 07/15/2015				