#### SPECIFICATION SHEET

### JFW MODEL 50MS-303

### 3 X 3 BLOCKING ELECTRO-MECHANICAL MATRIX SWITCH

JFW Industries, Inc. Phone: 317-887-1340 sales@jfwindustries.com www.jfwindustries.com

Frequency Range DC-6000 MHz

Configuration 3 x 3 Blocking Matrix

(see block diagram 092-7400)
(maximum of 3 active RF paths)
(unused input ports are reflective)
(unused output ports are reflective)

(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 1.3:1 typical 1.5:1 maximum

Insertion Loss
1.0 dB maximum DC-2500MHz
2.0 dB maximum 2500-6000MHz

Isolation Out to Out /In to Out / In to In

70 dB minimum DC-4000MHz 65 dB minimum 4000-6000MHz

RF Input Power 1 Watt average (Hot Switched)

90 Watts (Cold 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)

Control (Remote) Ethernet (DHCP, TCP/IP, 10/100, up to 12 users)

RS-232 (up to 115200 Baud)

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Remote Command Format 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: -20°C to +85°C

Physical Size See outline drawing 092-7377

ECR/ECN # DAT	E REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE	
07/02	/2012	BAC 07/02/2012					_
24239 07/15	/2015 A	TRS 07/15/2015					

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