SPECIFICATION SHEET
JFW MODEL 50MS-305
MATRIX SWITCH

Frequency Range	DC-6 GHz
Configuration	18 x 4 Blocking Electro-Mechanical Matrix Switch (See block diagram 092-7410) (maximum of 4 active RF paths) (inputs & outputs 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 @ 4RU high
Impedance	50 Ohms nominal
VSWR	1.2:1 typical DC-2GHz 1.3:1 typical 2-4GHz 1.4:1 typical 4-6GHz 1.5:1 maximum DC-2GHz 1.6:1 maximum 2-4GHz 1.7:1 maximum 4-6GHz
Insertion Loss	2.5 dB typical @ 6GHz 3.0 dB maximum DC-6GHz
Isolation	Input to Input - 65 dB minimum Input to Output - 65 dB minimum Output to Output - 65 dB minimum
RF Input Power	+30 dBm average (Hot Switched)
Switching Speed	20 milliseconds
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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JFW FORM E-7-F REV F

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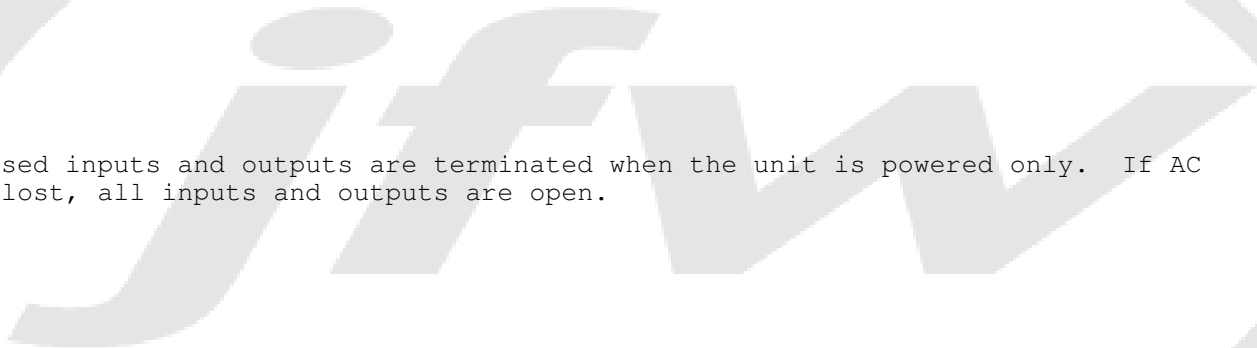|	
Remote Commands	Matrix Commands:
	Matrix, Set Input, Set Output, Read Input, Read Output, Read All Inputs, Read All Outputs, Read Matrix Paths
	System Commands:
	Help, Identification, Store, Recall, Pause, Net, Serial, Close, Disconnect, MOTD, Date, Message, Restrict, IDENT, Name, Show Users, Reboot, Uptime, Prompt
RF Connector	SMA female
AC Supply	100-240 VAC @ 47-63 Hz
	2 Amp 5x20mm "Slo-Blo" AC fuse
	Littelfuse #215-002, JFW #025-021
Temperature Range	0°C to +50°C
Physical Size	See outline drawing 092-7409

* The unused inputs and outputs are terminated when the unit is powered only. If AC power is lost, all inputs and outputs are open.

ECR/ECN # DATE	REV	APPR / DATE	ECR/ECN # DATE	REV APPR / DATE
07/17/2012		BAC 08/22/2012		
24239 07/15/2015	A	TRS 07/15/2015		