SPECIFICATION SHEET

JFW MODEL 50MS-367

4 X 4 BLOCKING ELECTRO-MECHANICAL MATRIX SWITCH

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

Frequency Range	DC-40 GHz
Configuration	4 x 4 Blocking Matrix (Unused Input Ports self-terminating) (Unused Output Ports self-terminating) (See Block Diagram 092-7300)
Startup/Default States (configurable)	ALL PORTS OFF (see MATRIX startup command) DHCP enabled (see NET command) 4 Ethernet users (see NET USERS command) Prompts off (see PROMPT command)
Impedance	50 Ohms nominal
VSWR	1.30:1 typical DC-8 GHz 1.60:1 typical 8-18 GHz 1.90:1 typical 18-26.5 GHz 2.00:1 typical 26.5-40 GHz 1.60:1 maximum DC-8 GHz 2.25:1 maximum 8-18 GHz 2.50:1 maximum 18-26.5 GHz 2.75:1 maximum 26.5-40 GHz
Insertion Loss	1.25 dB typical @ 4.0 GHz 1.75 dB typical @ 8.0 GHz 3.00 dB typical @ 18.0 GHz 4.00 dB typical @ 26.5 GHz 4.50 dB typical @ 33.0 GHz 5.50 dB typical @ 40.0 GHz 2.50 dB maximum DC-8 GHz 3.75 dB maximum 8-18 GHz 4.75 dB maximum 18-26.5 GHz 6.50 dB maximum 26.5-40 GHz
Isolation	Input to Input: 100 dB typical @ 8 GHz 80 dB typical @ 40 GHz 60 dB minimum DC-40 GHz Output to Output: 100 dB typical @ 8 GHz 80 dB typical @ 40 GHz 60 dB minimum DC-40 GHz Input to Output: 100 dB typical @ 8 GHz 95 dB typical @ 40 GHz 85 dB minimum DC-40 GHz

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RF Input Power*	25 Watts average average DC-18 GHz 15 Watts average 18-26.5 GHz 8 Watts average 26.5-40 GHz *Self-terminations rated at 1 Watt max.
Switching Speed	20 milliseconds (after command is received & processed) (3 milliseconds typical processing time)
AC Supply	100-240 VAC @ 47-63 Hz 4 Amp 5x20mm "Slo-Blo" AC fuse Littelfuse #215-004, JFW #025-018
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: Set Output, Read Output, Read All Outputs System Commands: Help, Identification, Store, Recall, Pause, Net, Serial, Close, Disconnect, MOTD, Date, Message,Restrict, IDENT, Name, Show Users, Reboot, Uptime, Prompt
RF Connector	2.92MM female
Operating Temperature Range	0°C to +50°C
Physical Size	See outline drawing 092-6835-01

ECR/ECN # DATE	REV APPR / DATE	ECR/ECN # DATE	REV APPR / DATE
03/30/2017	BAC 03/30/2017		