

SPECIFICATION SHEET

JFW MODEL 50MS-367

4 X 4 BLOCKING ELECTRO-MECHANICAL MATRIX SWITCH

JFW Industries, Inc.
Phone: 317-887-1340
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| | |
|--|---|
| 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 | | | | |