

SPECIFICATION SHEET

JFW MODEL 50MS-380

MATRIX SWITCH

JFW Industries, Inc.
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|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Range | DC-18 GHz |
| Configuration | 4 x 4 Blocking Electro-Mechanical Matrix Switch (See block diagram 092-7300) (Unused input ports are terminated) (Unused output ports are terminated) (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 | Typical: 1.1:1 typical DC-4GHz 1.3:1 typical 4-8GHz 1.5:1 typical 8-12.4GHz 1.8:1 typical 12.4-18GHz Maximum: 1.5:1 maximum DC-8GHz 2.0:1 maximum 8-18GHz |
| Insertion Loss | Typical: 1.25dB typical DC-4GHz 1.75dB typical 4-8GHz 2.50dB typical 8-12.4GHz 3.00dB typical 12.4-18GHz Maximum: 2.25dB maximum DC-8GHz 3.50dB maximum 8-18GHz |
| Isolation | Typical: 90dB typical DC-8GHz 80dB typical 8-18GHz Minimum: 70 dB minimum DC-4GHz 65 dB minimum 4-8GHz 60 dB minimum 8-18GHz |
| RF Input Power | 50 Watts average (cold switched) 1 Watt average (hot switched) |

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| 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) |
| 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 | SMA female |
| AC Supply | 100-240 VAC @ 47-63 Hz |
| Operating Temperature Range | 0° to +70° C |
| Physical Size | See outline drawing 092-9243 |

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| ECR/ECN # | DATE | REV | APPR / DATE | ECR/ECN # | DATE | REV | APPR / DATE |
| | 01/09/2018 | | TRS 01/09/2019 | | | | |