SPECIFICATION SHEET
JFW MODEL 50MS-421

## MATRIX SWITCH

| Frequency Range | $20-1000 \mathrm{MHz}$ |
| :---: | :---: |
| Configuration | 8 x 8 Blocking Solid-State Matrix Switch (See block diagram 092-9492) <br> (Unused input ports are self-terminating) (Unused output ports are self-terminating) <br> (all ports are bi-directional) <br> (the ADMIN password is located on rear panel) |
| Enclosure Type | 19 inch rack mount @ 6 RU high |
| Impedance | 50 Ohms nominal |
| VSWR | 1.6:1 typical 1.8:1 maximum |
| Insertion Loss | 3.7 dB typical @ 20 MHz <br> 4.8 dB typical @ 1000 MHz <br> 6.0 dB maximum $20-1000 \mathrm{MHz}$ |
| Isolation | Output to Output: 90 dB typical 75 dB minimum |
|  | Input to Output: 90 dB typical <br> 75 dB minimum <br> Input to Input: 90 dB typical <br> 75 dB minimum |
| RF Input Power | +20 dBm average <br> +27 dBm (no damage) |
| Switching Speed | 20 microseconds (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) |

## --CONTINUED--

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| Remote Commands | Matrix Commands: <br>  <br> Matrix, Set Input, Set Output, Read Input, Read <br>  <br> 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 |


| ECR/ECN \# DATE |  | REV | APPR / DATE | ECR/ECN \# DATE | REV APPR / DATE |  |
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| 31568 | $08 / 24 / 2021$ |  | BAC 08/24/2021 |  |  |  |
|  | $01 / 31 / 2022$ | A | TRS 01/31/2022 |  |  |  |

