**SPECIFICATION SHEET**

**JFW MODEL 50MS-297**

**24 X 4 NON-BLOCKING SOLID STATE MATRIX SWITCH**

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

| | |
|---|---|
| Frequency Range | 700-2600 MHz |
| Configuration | 24 x 4 Blocking Matrix with 4 programmable attenuators on output ports<br>(See Block Diagram 092-7321)<br>(Unused Input Ports self-terminating)<br>(Unused Output Ports self-terminating) |
| Impedance | 50 Ohms nominal |
| VSWR | 1.8:1 maximum<br>1.6:1 typical |
| Insertion Loss | 15 dB maximum<br>13 dB typical |
| Attenuation Range | 0-127 dB in 1 dB steps |
| Attenuation Accuracy<br>(guaranteed monotonic) | ± 0.75 dB or 2% maximum<br>± 0.50 dB or 2% typical |
| Isolation | Input to Input: 50 dB minimum<br><br>Output to Output: 55 dB minimum<br>(w/ attenuators at 0dB setting)<br><br>Input to Output: 100 dB minimum<br>(w/ attenuators at 0dB setting) |
| RF Input Power | +20 dBm average |
| Switching Speed | 15 microseconds<br>(after command is received & processed)<br>(3 milliseconds typical processing time) |
| AC Supply | 100-240 VAC @ 47-63 Hz |
| Remote Control | RS-232 mode: 9600, 19200, or 38400 Baud<br>Ethernet mode: 10/100, TCP/IP<br>Telnet compatible<br>4 simultaneous users |

**--CONTINUED--**

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|---|---|
| Remote Commands | ---------- MATRIX COMMANDS ----------<br>Set Output, Read Output, Read All Outputs<br><br>--------- ATTENUATOR COMMANDS ---------<br>Set Attenuator, Set Attenuator w/ Response, Set All Attenuators, Read Attenuator, Read All Attenuators, Fade Attenuator, Variable Handover<br><br>---------- SYSTEM COMMANDS ----------<br>Pause, Store, Recall, Identification, Disconnect, Close, Message, Clear, Change Baud Rate |
| RF Connector | SMA or N female |
| Operating Temperature Range | 0°C to +50°C |
| Physical Size | See outline drawing 092-7320 |

| ECR/ECN # DATE | REV APPR / DATE | ECR/ECN # DATE | REV APPR / DATE |
|---|---|---|---|
| 04/10/2012 | TRS 04/10/2012 | | |