

**SPECIFICATION SHEET****JFW MODEL 50S-1722****1P8T SELF TERMINATING SOLID STATE RF SWITCH**

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

|                                               |                                                                                                                       |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Frequency Range                               | 0.5-18 GHz                                                                                                            |
| Configuration                                 | 1P8T Self Terminating                                                                                                 |
| Impedance                                     | 50 Ohms nominal                                                                                                       |
| VSWR                                          | 1.5:1 typical 0.5-4GHz<br>1.8:1 typical 4-18GHz<br>2.2:1 maximum 0.5-18GHz                                            |
| Insertion Loss                                | 3.0 dB typical 0.5-8GHz<br>4.0 dB typical 8-18GHz<br>5.0 dB maximum 0.5-18GHz                                         |
| Isolation                                     | 90 dB typical 0.5-8GHz<br>70 dB typical 8-18GHz<br>60 dB minimum 0.5-18GHz                                            |
| Switching Speed<br>(50% TTL to 10% or 90% RF) | 200 nanoseconds maximum<br>100 nanoseconds typical                                                                    |
| RF Input Power                                | +20 dBm maximum                                                                                                       |
| Control Logic (8 Lines)                       | 1 TTL line per port<br>TTL "Low" (0-0.8V) for OFF<br>TTL "High" (2.0-5.0V) for ON<br>(only one port active at a time) |
| DC Supplies                                   | +5 Vdc @ 400 mA nominal<br>and<br>-5 Vdc @ 100 mA nominal                                                             |
| DC Connector                                  | Solder Terminals                                                                                                      |
| RF Connector                                  | SMA female                                                                                                            |
| Operating Temperature Range                   | 0°C to +70°C                                                                                                          |
| Storage Temperature Range                     | -55°C to +90°C                                                                                                        |
| Physical Size                                 | See outline drawing 092-7152                                                                                          |

| ECR/ECN # | DATE       | REV | APPR / DATE    | ECR/ECN # | DATE | REV | APPR / DATE |
|-----------|------------|-----|----------------|-----------|------|-----|-------------|
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