

**SPECIFICATION SHEET**

**JFW MODEL 50S-1954**

**1P2T SELF TERMINATING SOLID STATE RF SWITCH**

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

|                             |   |
|-----------------------------|---|
| Frequency Range             | 0.5-2000 MHz  |
| Configuration               | 1P2T Self Terminating   |
| Impedance                   | 50 Ohms nominal   |
| VSWR                        | 1.4:1 maximum   |
| Insertion Loss              | 1.8 dB maximum<br>1.1 dB typical @ 0.5 MHz<br>1.4 dB typical @ 2000 MHz   |
| Isolation                   | 60 dB minimum<br>80 dB typical @ 500 MHz<br>70 dB typical @ 2000 MHz  |
| Switching Speed             | 25 microseconds maximum<br>(50% TTL to 10% or 90% RF)   |
| RF Input Power              | +26 dBm average (Hot Switchable)  |
| Control Logic (1 Line)      | TTL "Low" (0-0.8 Vdc) for COM to J1 and J2 Terminated<br><br>TTL "High" (2.0-5.0 Vdc) for COM to J2 and J1 terminated |
| DC Supply                   | +5 Vdc @ 10 mA nominal  |
| DC Connector                | 4 Pin (MOLEX #22-11-2042)<br>Mating Connector: (MOLEX #22-01-3047)  |
| RF Connector                | SMA female  |
| Operating Temperature Range | -40°C to +85°C  |
| Storage Temperature Range   | -55°C to +90°C  |
| Physical Size               | See outline drawing 092-6533  |

| ECR/ECN # | DATE       | REV | APPR / DATE    | ECR/ECN # | DATE | REV | APPR / DATE |
|-----------|------------|-----|----------------|-----------|------|-----|-------------|
|           | 11/09/2011 |     | TRS 11/09/2011 |           |      |     |             |