

**SPECIFICATION SHEET**

**JFW MODEL 50S-1584**

**1P16T SELF TERMINATING SOLID STATE RF SWITCH**

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

Frequency Range 20-4300 MHz

Configuration 1P16T Self Terminating

Impedance 50 Ohms nominal

VSWR 1.40:1 Typical  
1.70:1 Maximum

Insertion Loss 2.5dB Typical 20-1000MHz  
3.5dB Maximum 20-1000MHz  
3.5dB Typical 1000-3000MHz  
4.5dB Maximum 1000-3000MHz  
4.5dB Typical 3000-4300MHz  
5.5dB Maximum 3000-4300MHz

Isolation 60dB Minimum 20-1000MHz  
50dB Minimum 1000-4300MHz

Switching Speed 15 microseconds maximum

RF Input Power +20 dBm

Control Logic (5 Lines) Binary coded TTL (See example below)

(C1-C2-C3-C4-C5)  
( 1 0 0 0 0) for J1 to common  
( 0 1 0 0 0) for J2 to common  
( 1 1 0 0 0) for J3 to common  
.  
.  
( 0 0 0 0 1) for J16 to common

DC Supply +5Vdc @ 200 mA nominal  
and  
+24Vdc @ 220 mA nominal

DC Connector 10 Pin Connector  
(3M#3793-5305)

RF Connector SMA female

Operating Temperature Range 0° to +70° C

Physical Size See outline drawing 092-5742

| ECR/ECN # | DATE       | REV | APPR / DATE    | ECR/ECN # | DATE | REV | APPR / DATE |
|-----------|------------|-----|----------------|-----------|------|-----|-------------|
|           | 03/18/2008 |     | BAC 03/18/2008 |           |      |     |             |
| 16553     | 11/25/2008 | A   | BAC 11/25/2008 |           |      |     |             |