

**SPECIFICATION SHEET**

**JFW MODEL 50S-1163**

**1P2T REFLECTIVE SOLID STATE RF SWITCH**

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|                             |  |
|-----------------------------|--|
| Frequency Range             | 20-4300 MHz  |
| Configuration               | 1P2T Reflective  |
| Impedance                   | 50 Ohms nominal  |
| VSWR                        | 1.5:1 maximum  |
| Insertion Loss              | 1.5 dB maximum 20-1000 MHz<br>3.0 dB maximum 1000-4300 MHz   |
| Isolation                   | 80 dB minimum 20-1000 MHz<br>70 dB minimum 1000-2000 MHz<br>60 dB minimum 2000-4000 MHz<br>55 dB minimum 4000-4300 MHz |
| Switching Speed             | 20 microseconds  |
| RF Input Power              | +20 dBm average 20-100 MHz<br>+30 dBm average 100-4300 MHz   |
| Control Logic (2 Lines)     | TTL Low for OFF and reflective<br><br>TTL High for ON [(i.e. C1 High for J1-J3 (common)]                               |
| DC Supply                   | +24 Vdc @ 50 mA  |
| DC Connector                | "D" Subminiature DE 9P   |
| 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 092-3506   |

| ECR/ECN # | DATE       | REV | APPR / DATE    | ECR/ECN # | DATE       | REV | APPR / DATE    |
|-----------|------------|-----|----------------|-----------|------------|-----|----------------|
|           | 11/21/2000 |     |                | 11759     | 08/24/2005 | C   | BAC 08/24/2005 |
| 4083      | 01/09/2003 | A   | CLV 01/09/2003 |           |            |     |                |
| 4092      | 01/21/2003 | B   | CLV 01/21/2003 |           |            |     |                |