

**SPECIFICATION SHEET**

**JFW MODEL 50S-2099**

**1P8T SELF TERMINATING SOLID STATE RF SWITCH**

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Frequency Range 400-3000 MHz

Configuration 1P8T Self Terminating

Impedance 50 Ohms nominal

VSWR 1.5:1 maximum  
1.3:1 typical

Insertion Loss 3.5 dB maximum  
2.1 dB typical @ 400 MHz  
3.0 dB typical @ 3000 MHz

Isolation 70 dB minimum 400-2000 MHz  
60 dB minimum 2000-3000 MHz

Switching Speed 10 microseconds maximum  
(50% TTL to 10% or 90% RF) 0.5 microseconds typical (OFF)  
3.0 microseconds typical (ON)

RF Input Power +30 dBm

Control Logic (4 Lines) Binary coded per 092-3658  
TTL "High" (2.0-5.0V)  
TTL "Low" (0-0.8V)

DC Supply +5 Vdc @ 110 mA nominal  
and  
+12 Vdc @ 140 mA nominal

Repeatability ± 0.05 dB typical

MTBF 226,017 hours

DC Connector 10 Pin 3M #3793-5303  
(mates with 3M #3473-7010)

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 092-3658

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