

**SPECIFICATION SHEET**

**JFW MODEL 50S-2039**

**1P1T SELF TERMINATING SOLID STATE RF SWITCH**

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Frequency Range 20-6000 MHz

Configuration 1P1T Self Terminating  
(Terminated on both ends in OFF state)

Impedance 50 Ohms nominal

VSWR 1.6:1 maximum  
< 1.4:1 typical (thru path)  
< 1.2:1 typical (self-terminations)

Insertion Loss 3.0 dB maximum  
1.6 dB typical @ 20 MHz  
1.7 dB typical @ 700 MHz  
2.1 dB typical @ 3000 MHz  
2.4 dB typical @ 6000 MHz

Isolation 60 dB minimum  
93 dB typical @ 500 MHz  
80 dB typical @ 3000 MHz  
65 dB typical @ 6000 MHz

Switching Speed 10 microseconds maximum  
(50% TTL to 90% RF) 5 microseconds typical (OFF-ON)  
(50% TTL to 10% RF) 2 microseconds typical (ON-OFF)

RF Input Power +26 dBm average (Hot Switchable)

Control Logic (1 Line) TTL High for ON (thru path)  
TTL Low for OFF (self-terminations)

DC Supply +5 Vdc @ 5 mA maximum  
(2 mA typical)

RF Connector SMA female

Operating Temperature Range -40°C to +85°C

Physical Size See outline drawing 092-8206

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