

**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 (50% TTL to 10% or 90% RF)	10 microseconds maximum 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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