## SPECIFICATION SHEET

JFW MODEL 50S-2178

1P1T SELF TERMINATING SOLID STATE RF SWITCH

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Frequency Range	20-8400 MHz	
Configuration	1P1T Self Terminating (Terminated on both ends in OFF state)	
Impedance	50 Ohms nominal	
VSWR	1.40:1 typical (thru path) 1.30:1 typical (self-terminations) 1.60:1 maximum 20-8400 MHz	
Insertion Loss	1.6 dB typical @ 20 MHz 2.2 dB typical @ 2000 MHz 2.4 dB typical @ 4000 MHz 2.7 dB typical @ 6000 MHz 3.6 dB typical @ 8400 MHz 4.2 dB maximum 20-8400 MHz	
Isolation	80 dB typical @ 2000 MHz 75 dB typical @ 4000 MHz 65 dB typical @ 6000 MHz 50 dB typical @ 8400 MHz	
	60 dB minimum 20-6000 MHz 45 dB minimum 6000-8400 MHz	
Switching Speed (50% TTL to 90% RF) (50% TTL to 10% RF)	10 microseconds maximum 5 microseconds typical (OFF-ON) 2 microseconds typical (ON-OFF)	
RF Input Power	+26 dBm average (Hot Switchable)	
Control Logic (1 Line)	TTL "High" (2.0-5.0V) for ON (thru path) TTL "Low" (0-0.8V) for OFF (self- terminations) TTL Current ± 1.3mA maximum	
DC Supply	+5 Vdc @ 5 mA nominal	
RF Connector	SMA female	
Operating Temperature Range	-40°C to +85°C	
Physical Size	See outline drawing 092-8206	

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