

SPECIFICATION SHEET

JFW MODEL 50S-1786

1P12T SELF TERMINATING SOLID STATE RF SWITCH

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Frequency Range	0.5-18 GHz
Configuration	1P12T Self Terminating
Impedance	50 Ohms nominal
VSWR	1.4:1 typical 0.5-4GHz 1.7:1 typical 4-18GHz 2.0:1 maximum 0.5-18GHz
Insertion Loss	3.2 dB typical 0.5-8GHz 4.2 dB typical 8-18GHz 4.7 dB maximum 0.5-18GHz
Isolation	80 dB typical 0.5-8GHz 70 dB typical 8-18GHz 65 dB minimum 0.5-18GHz
Switching Speed (50% TTL to 10% or 90% RF)	100 nanoseconds maximum 75 nanoseconds typical
RF Input Power	+27 dBm maximum
3rd Order Intercept Point	+45dBm minimum
Control Logic (4 BCD Lines)	TTL "Low" (0-0.8V) TTL "High" (2.0-5.0V)
	E1 E2 E3 E4
	0 0 0 0 = J1 to COM
	1 0 0 0 = J2 to COM
	0 1 0 0 = J3 to COM
	1 1 0 0 = J4 to COM
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	1 1 0 1 = J12 to COM
	1 1 1 1 = ALL OFF
DC Supplies	+5 ±0.3 Vdc @ 480 mA nominal and -12 to -15 Vdc @ 40 mA nominal
DC Connector	Solder Terminals
RF Connector	SMA female
Operating Temperature Range	-55°C to +85°C
Storage Temperature Range	-65°C to +125°C
Weight	60 grams nominal
Physical Size	See outline drawing 092-8416

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	09/14/2015		BAC 09/14/2015				