

SPECIFICATION SHEET

JFW MODEL 50S-1770+XX-TTL

**1P2T SELF TERMINATING LATCHING ELECTROMECHANICAL
RF SWITCH**

JFW Industries, Inc.
Phone: 317-887-1340
sales@jfwindustries.com
www.jfwindustries.com

Frequency Range	DC-40 GHz
Configuration	1P2T Self Terminating Latching Self-Cut off
Impedance	50 Ohms nominal
VSWR	1.30:1 maximum DC-6 GHz 1.40:1 maximum 6-12 GHz 1.50:1 maximum 12-18 GHz 1.70:1 maximum 18-26.5 GHz 1.80:1 maximum 26.5-40 GHz
Insertion Loss	0.30 dB maximum DC-6 GHz 0.40 dB maximum 6-12 GHz 0.50 dB maximum 12-18 GHz 0.70 dB maximum 18-26.5 GHz 0.80 dB maximum 26.5-40 GHz
Isolation	80 dB minimum DC-6 GHz 70 dB minimum 6-12 GHz 65 dB minimum 12-18 GHz 60 dB minimum 18-26.5 GHz 55 dB minimum 26.5-40 GHz
Switching Speed	20 milliseconds maximum
RF Input Power (cold switched)	40 Watts average DC-6 GHz 30 Watts average 6-12 GHz 25 Watts average 12-18 GHz 15 Watts average 18-26.5 GHz 8 Watts average 26.5-40 GHz *Internal terminations 1W average
Control (2 Lines) (Self-Cut Off)	TTL "High" pulse on Logic 1 for J1 TTL "High" pulse on Logic 2 for J2 (Minimum pulse width 20msec) (TTL "Low" is 0-0.8V) (TTL "High" is 2.4-5.5V)
DC Supply	+XX is either +12, +15, +24 or +28: ----- +12 Vdc(11-14V) @ 415 mA nominal +15 Vdc(13-17V) @ 330 mA nominal +24 Vdc(20-28V) @ 210 mA nominal +28 Vdc(24-32V) @ 180 mA nominal
DC Connector	Solder terminals

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RF Connector 2.9mm female

Operating Temperature Range -25°C to +65°C

Lifetime 1 million cycles minimum

Physical Size See outline drawing 092-8516



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	01/06/2016		BAC 01/06/2016	33456	07/16/2024	C	TRS 07/16/2024
26910	08/04/2016	A	BAC 08/04/2016				
28937	08/08/2018	B	TRS 08/08/2018				