

SPECIFICATION SHEET

JFW MODEL 50S-1650+XX-TTL

**1P4T NORMALLY OPENED SELF TERMINATING
ELECTROMECHANICAL RF SWITCH**

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

Frequency Range	DC-18 GHz
Configuration	1P4T Normally Open Self Terminating
Impedance	50 Ohms nominal
VSWR	1.2:1 maximum DC-4 GHz 1.3:1 maximum 4-8 GHz 1.4:1 maximum 8-12 GHz 1.5:1 maximum 12-18 GHz
Insertion Loss	0.20 dB maximum DC-4 GHz 0.30 dB maximum 4-8 GHz 0.40 dB maximum 8-12 GHz 0.50 dB maximum 12-18 GHz
Isolation	80 dB minimum DC-4 GHz 70 dB minimum 4-8 GHz 65 dB minimum 8-12 GHz 60 dB minimum 12-18 GHz
Switching Speed	15 milliseconds
RF Input Power* (cold switched)	500 Watts average DC-100 MHz 400 Watts average 100-200MHz 300 Watts average 200-500MHz 200 Watts average 500-1000MHz 100 Watts average 1-4 GHz 90 Watts average 4-8 GHz 70 Watts average 8-12 GHz 60 Watts average 12-18 GHz *2 Watts average for self terminations
Control (4 lines) (Only one active at a time)	TTL "low" (0-0.8V) for OFF and Terminated. TTL "high" (2.0-5.0V) for ON.
DC Supply	+XX is either +12,+15,+24 or +28: ----- +12 Vdc(11-14V) @ 350 mA nominal +15 Vdc(13-17V) @ 300 mA nominal +24 Vdc(20-28V) @ 200 mA nominal +28 Vdc(24-32V) @ 160 mA nominal
DC Connector	Solder Terminals
RF Connector	SMA female

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

Lifetime 1 million cycles minimum

Physical Size See outline drawing 092-6440

Add (-NR) for NON-RoHS version. (I.e. 50S-1650+12-TTL-NR SMA)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	01/26/2010		BAC 01/26/2010	33456	07/16/2024	C	TRS 07/16/2024
24842	01/07/2015	A	BAC 01/07/2015				
28937	08/08/2018	B	TRS 08/08/2018				