

**SPECIFICATION SHEET**

**JFW MODEL 50S-1315+XX-TTL**

**1P4T NORMALLY OPENED ELECTROMECHANICAL RF SWITCH**

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

Frequency Range	DC-18 GHz
Configuration	1P4T Normally Open Reflective
Impedance	50 Ohms nominal
VSWR	1.20:1 maximum DC-4GHz 1.30:1 maximum 4-8GHz 1.40:1 maximum 8-12GHz 1.50:1 maximum 12-18GHz
Insertion Loss	0.2 dB maximum DC-4GHz 0.3 dB maximum 4-8GHz 0.4 dB maximum 8-12GHz 0.5 dB maximum 12-18GHz
Isolation	70 dB minimum DC-4GHz 65 dB minimum 4-8GHz 60 dB minimum 8-12GHz 60 dB minimum 12-18GHz
Switching Speed	20 milliseconds
RF Input Power	400 Watts average DC-200 MHz 300 Watts average 200-500 MHz 200 Watts average 500-1000 MHz 100 Watts average 1-4 GHz 90 Watts average 4-8 GHz 70 Watts average 8-12 GHz 60 Watts average 12-18 GHz
DC Supply	+XX is either +12,+15,+24 or +28: ----- +12 Vdc(11-14Vdc)@ 325 mA nominal +15 Vdc(14-17Vdc)@ 275 mA nominal +24 Vdc(20-28Vdc)@ 190 mA nominal +28 Vdc(24-32Vdc)@ 160 mA nominal
Control (4 lines) (Only one active line)	TTL "high" (2.0-5.5Vdc) on line corresponding to desired port. TTL "low" (0-0.8Vdc) on other three lines. TTL current $\pm$ 1.3mA maximum
DC Connector	Solder Terminals
RF Connector	SMA female

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Lifetime 1 million cycles minimum

Operating Temperature Range -20°C to +65°C

Weight 4 oz nominal

Physical Size See outline drawing 092-4186

Add (-NR) for NON-RoHS verion. (i.e. 50S-1315+12-TTL-NR SMA)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	08/18/2005		BAC 08/18/2005				
17644	09/02/2009	A	BAC 09/02/2009				
19957	04/07/2011	B	TRS 04/07/2011				