

**SPECIFICATION SHEET**

**JFW MODEL 50S-1313+XX**

**1P2T FAILSAFE ELECTROMECHANICAL RF SWITCH**

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

Frequency Range	DC-18 GHz
Configuration	1P2T Failsafe Reflective (Failsafe COM to N.C.)
Impedance	50 Ohms nominal
VSWR	1.10:1 maximum DC-1GHz 1.15:1 maximum 1-4GHz 1.20:1 maximum 4-8GHz 1.30:1 maximum 8-12GHz 1.35:1 maximum 12-18GHz
Insertion Loss	0.10 dB maximum DC-1GHz 0.15 dB maximum 1-4GHz 0.20 dB maximum 4-8GHz 0.30 dB maximum 8-12GHz 0.35 dB maximum 12-18GHz
Isolation	85 dB minimum DC-1GHz 80 dB minimum 1-4GHz 70 dB minimum 4-8GHz 65 dB minimum 8-12GHz 60 dB minimum 12-18GHz
Switching Speed	15 milliseconds
RF Input Power (cold switched)	400 Watts average DC-200MHz 300 Watts average 200-500MHz 200 Watts average 500-1000MHz 100 Watts average 1-4GHz 90 Watts average 4-8GHz 70 Watts average 8-12GHz 60 Watts average 12-18GHz
Control (1 line) (Energize for COM to N.O.)	+XX is either +12,+15,+24 or +28: ----- +12 Vdc (11-14Vdc) @ 200 mA nominal +15 Vdc (13-17Vdc) @ 160 mA nominal +24 Vdc (20-28Vdc)@ 120 mA nominal +28 Vdc (24-32Vdc)@ 100 mA nominal
Lifetime	1 million cycles minimum

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Weight 2.5 oz. Nominal  
DC Connector Solder terminals  
RF Connector SMA female  
Operating Temperature Range -25°C to +65°C  
Physical Size See outline drawing 092-4496

Add (-NR) for NON-RoHS version. (I.e. 50S-1313+12-NR SMA)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	08/18/2005		BAC 08/18/2005	19957	04/07/2011	C	TRS 04/07/2011
12538	03/16/2006	A	BAC 03/16/2006	33456	07/16/2024	D	TRS 07/16/2024
17351	06/25/2009	B	BAC 06/25/2009				