

**SPECIFICATION SHEET**

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

**1P4T NORMALLY OPENED REFLECTIVE  
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
Control (4 lines) (Only one active port at a time)	+XX is either +12,+15,+24 or +28: ----- +12 Vdc (11-14 Vdc) @ 325 mA nominal +15 Vdc (13-17 Vdc) @ 280 mA nominal +24 Vdc (20-28 Vdc) @ 190 mA nominal +28 Vdc (24-32 Vdc) @ 160 mA nominal
Control Wiring	The control lines can be wired as Ground activated or Voltage activated. The control pins are not polarity sensitive. Only one port can be active at a time.  Ground activated: "C" tied to +XX Vdc Each port then GND activated  Voltage activated: "C" tied to GND Each port then +XX Vdc activated
DC Connector	Solder Terminals

**--CONTINUED--**

**SPECIFICATION SHEET**

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

**1P4T NORMALLY OPENED REFLECTIVE  
ELECTROMECHANICAL RF SWITCH**

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

RF Connector SMA female  
Lifetime 1 million cycles minimum  
Operating Temperature Range -20°C to +65°C  
Weight 4 oz nominal  
Physical Size See outline drawing 092-4186



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	08/18/2005		BAC 08/18/2005	28824	06/25/2018	C	TRS 06/25/2018
17259	05/28/2009	A	BAC 05/28/2009				
19957	04/07/2011	B	TRS 04/07/2011				