

**SPECIFICATION SHEET**

**JFW MODEL 50S-1361+XX**

**FAILSAFE TRANSFER ELECTROMECHANICAL RF SWITCH**

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

Frequency Range	DC-18 GHz
Configuration	Fail-safe Transfer Switch (Fail-safe J1 to J3 and J2 to J4)
Impedance	50 Ohms nominal
VSWR	1.10:1 maximum DC-1 GHz 1.20:1 maximum 1-4 GHz 1.30:1 maximum 4-8 GHz 1.40:1 maximum 8-12 GHz 1.50:1 maximum 12-18 GHz
Insertion Loss	0.10 dB maximum DC-1 GHz 0.20 dB maximum 1-4 GHz 0.30 dB maximum 4-8 GHz 0.40 dB maximum 8-12 GHz 0.50 dB maximum 12-18 GHz
Isolation	85 dB minimum DC-1 GHz 80 dB minimum 1-4 GHz 70 dB minimum 4-8 GHz 65 dB minimum 8-12 GHz 60 dB minimum 12-18 GHz
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

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Control (1 line) +XX is either +12,+15,+24 or +28:  
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+12 Vdc (11-14Vdc) @ 360 mA nominal for (J1 to J2) and (J3 to J4).  
OR  
+15 Vdc (13-17 Vdc) @ 285 mA nominal for (J1 to J2) and (J3 to J4).  
OR  
+24 Vdc (20-28 Vdc) @ 190 mA nominal for (J1 to J2) and (J3 to J4).  
OR  
+28 Vdc (24-32 Vdc) @ 135 mA nominal for (J1 to J2) and (J3 to J4).

DC Connector Solder Terminals  
 RF Connector SMA female  
 Lifetime (typical) 1 million cycles minimum  
 Operating Temperature Range -20°C to +65°C  
 Storage Temperature Range -40°C to +85° C  
 Weight 4 oz nominal  
 Physical Size See outline drawing 092-4375  
 Add (-NR) for NON-RoHS verion. (i.e. 50S-1361+12-NR SMA)

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	08/18/2005		BAC 08/18/2005				
17140	04/28/2009	A	BAC 04/28/2009				
21435	04/04/2012	B	BAC 04/04/2012				