

**SPECIFICATION SHEET**

**JFW MODEL 50S-1314+XX**

**1P2T FAILSAFE REFLECTIVE ELECTROMECHANICAL RF SWITCH**

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Frequency Range DC-12.4 GHz

Configuration 1P2T Failsafe Reflective  
(Failsafe COM to N.C.)

Impedance 50 Ohms nominal

VSWR 1.15:1 maximum DC-1GHz  
1.20:1 maximum 1-2GHz  
1.25:1 maximum 2-4GHz  
1.45:1 maximum 4-8GHz  
1.50:1 maximum 8-12.4GHz

Insertion Loss 0.15 dB maximum DC-1GHz  
0.20 dB maximum 1-2GHz  
0.25 dB maximum 2-4GHz  
0.40 dB maximum 4-8GHz  
0.50 dB maximum 8-12.4GHz

Isolation 85 dB minimum DC-1GHz  
80 dB minimum 1-2GHz  
70 dB minimum 2-4GHz  
60 dB minimum 4-12.4GHz

Switching Speed 20 milliseconds

RF Input Power (cold switched) 800 Watts average DC-0.5GHz  
500 Watts average 0.5-1GHz  
400 Watts average 1-2GHz  
300 Watts average 2-4GHz  
200 Watts average 4-8GHz  
175 Watts average 8-12.4GHz

Control (1 line) (for COM to N.O.) +XX is either +12,+15,+24 or +28:  
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+12Vdc(11-14V) @ 260 mA nominal  
+15Vdc(13-17V) @ 230 mA nominal  
+24Vdc(20-28V) @ 150 mA nominal  
+28Vdc(24-32V) @ 115 mA nominal

DC Connector Solder terminals

RF Connector N female

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

Physical Size See outline drawing 092-4185

Add (-NR) for NON-RoHS version. (i.e. 50S-1314+12-NR N)

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	10/05/2007		TRS 10/05/2007	26662	05/17/2016	C	TRS 05/17/2016
17802	10/23/2009	A	BAC 10/23/2009	31840	06/23/2022	D	TRS 06/23/2022
26537	04/12/2016	B	TRS 04/12/2016	33456	07/16/2024	E	TRS 07/16/2024