

SPECIFICATION SHEET

JFW MODEL 50S-1603+XX

**1P2T FAILSAFE SELF TERMINATING ELECTROMECHANICAL
RF SWITCH**

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

Frequency Range	DC-18 GHz
Configuration	1P2T Failsafe Self Terminating
Impedance	50 Ohms nominal
VSWR	1.20:1 maximum DC-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	0.20 dB maximum DC-4 GHz 0.30 dB maximum 4-8 GHz 0.40 dB maximum 8-12 GHz 0.50 dB maximum 12-18 GHz
Isolation	70 dB minimum DC-4 GHz 65 dB minimum 4-8 GHz 60 dB minimum 8-12 GHz 60 dB minimum 12-18 GHz
Switching Speed	20 milliseconds
RF Input Power* (cold switched)	500 Watts average DC-100 MHz 400 Watts average 100-200MHz 300 Watts average 200-500MHz 200 Watts average 500-1000MHz 100 Watts average 1-4 GHz 90 Watts average 4-8 GHz 70 Watts average 8-12 GHz 60 Watts average 12-18 GHz *2 Watts average for self terminations
Control (1 line)	+XX is either +12,+24 or +28: ----- +12Vdc @ 450 mA nominal (11-16Vdc) +24Vdc @ 225 mA nominal (20-28Vdc) +28Vdc @ 200 mA nominal (24-32Vdc) Unit if fail-safe NC to COM +Vdc on control pin for NO to COM
DC Connector	Solder Terminals
RF Connector	SMA female
Operating Temperature Range	-25°C to +65°C
Lifetime (typical)	5 million operations
Physical Size	See outline drawing 092-4831

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Add (-NR) for NON-RoHS version. (I.e. 50S-1603+12-NR SMA)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	04/17/2007		CLK 04/17/2007	24842	01/07/2015	C	BAC 01/07/2015
16223	08/15/2008	A	CLK 08/15/2008	33456	07/16/2024	D	TRS 07/16/2024
19017	08/17/2010	B	BAC 08/17/2010				