

**SPECIFICATION SHEET**

**JFW MODEL 50S-1443+XX**

**1P12T 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	1P12T Normally Open Reflective
Impedance	50 Ohms nominal
VSWR	1.2:1 maximum DC-4GHz 1.4:1 maximum 4-8GHz 1.5:1 maximum 8-12GHz 1.8:1 maximum 12-18GHz
Insertion Loss	0.2 dB maximum DC-4GHz 0.4 dB maximum 4-8GHz 0.6 dB maximum 8-12GHz 0.8 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	15 milliseconds
RF Input Power	300 Watts average DC-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 (12 lines) (Only one active port at a time)	+12V, +15Vdc and +28Vdc available ----- +12 Vdc @ 325 mA nominal +15 Vdc @ 300 mA nominal +28 Vdc @ 130 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
Lifetime	1 million cycles minimum
Weight	7 oz. Nominal

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DC Connector	Solder Terminals
RF Connector	SMA female
Operating Temperature Range	-20°C to +65°C
Physical Size	See outline drawing 092-4898

Note: Add (-NR) for NON-RoHS verion. (I.e. 50S-1443+12-NR SMA)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	03/31/2006		BAC 03/31/2006				
14420	07/19/2007	A	TRS 07/19/2007				