

**SPECIFICATION SHEET**

**JFW MODEL 50SA-316**

**SWITCH ASSEMBLY**

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

Frequency Range	DC-18 GHz
Configuration	1P8T normally open self-terminating electro-mechanical RF switch
Enclosure Type	19 inch rack mount @ 2RU high
Startup/Default States (configurable)	RF Switch off at startup (see SWITCH command) DHCP enabled (see NET command) 4 Ethernet users (see NET command) Prompts off (see PROMPT command)
Impedance	50 Ohms nominal
VSWR	1.2:1 maximum DC-4 GHz 1.3:1 maximum 4-8 GHz 1.4:1 maximum 8-12.4 GHz 1.5:1 maximum 12.4-18 GHz
Insertion Loss	0.2 dB maximum DC-4 GHz 0.3 dB maximum 4-8 GHz 0.4 dB maximum 8-12.4 GHz 0.5 dB maximum 12.4-18 GHz
Isolation	80 dB minimum DC-4 GHz 75 dB minimum 4-8 GHz 70 dB minimum 8-12.4 GHz 60 dB minimum 12.4-18 GHz
RF Input Power (cold switched)	120 Watts average DC-4 GHz 90 Watts average 4-8 GHz 70 Watts average 8-12.4 GHz 60 Watts average 12.4-18 GHz
	*Internal Terminations rated at 2 Watts average maximum.
Switching Speed	15 milliseconds (after command is received and processed) (3 milliseconds typical processing time)
Manual Control	20-Button Keypad and LCD display (IP Address configurable via keypad) (Net mask configurable via keypad) (Gateway configurable via keypad) (Baud rate configurable via keypad)
Remote Control (switchable)	Ethernet (DHCP, TCP/IP, 10/100, up to 12 users) RS-232 (up to 115200 Baud)

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Remote Commands

RF Switch Control Commands:  
Switch, Set Switch, Read Switch

System Commands:  
Help, Identification, Store, Recall, Pause, Net,  
Serial, Close, Disconnect, MOTD, Date, Message,  
Restrict, IDENT, Name, Show Users, Reboot, Uptime,  
Prompt

AC Supply

100-240 VAC @ 47-63 Hz  
2 Amp 5x20mm "Slo-Blo" AC fuse  
Littelfuse #215-002, JFW #025-021

RF Connector

SMA female

Control Connector

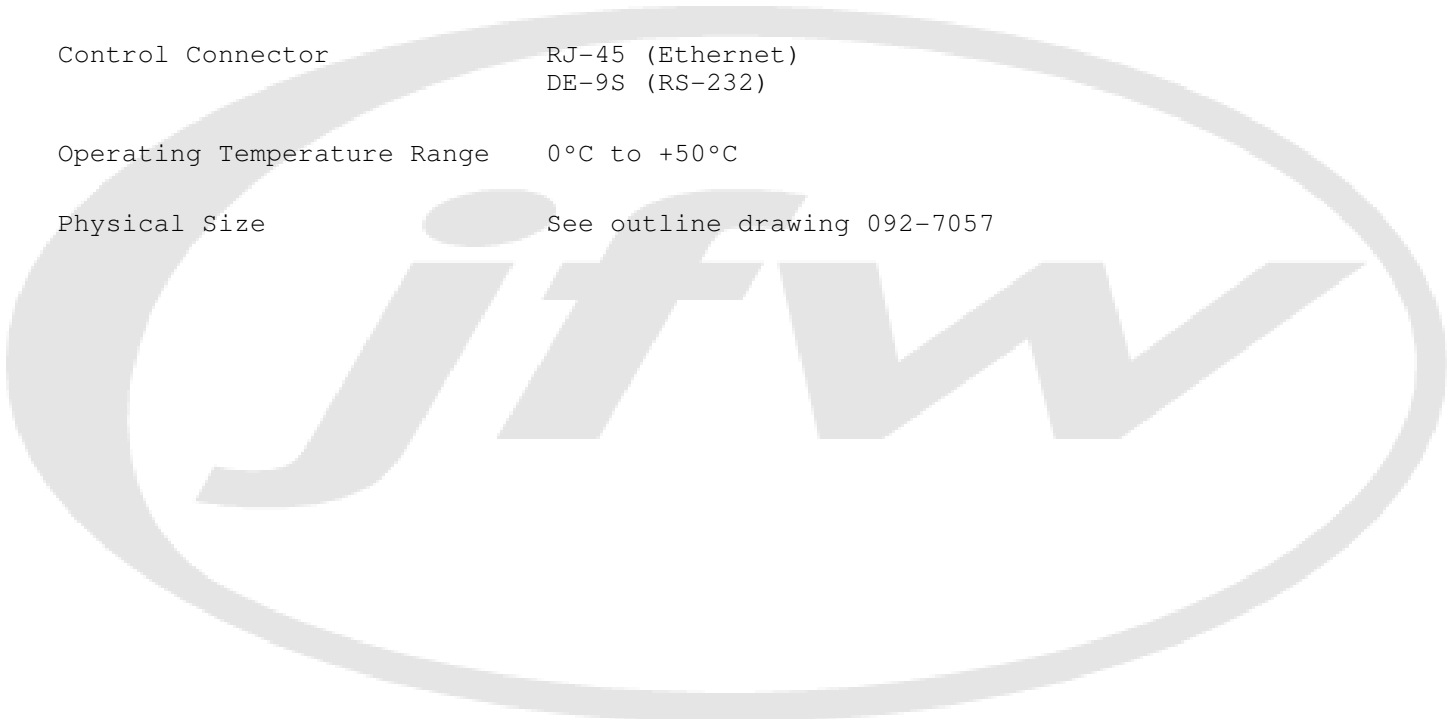
RJ-45 (Ethernet)  
DE-9S (RS-232)

Operating Temperature Range

0°C to +50°C

Physical Size

See outline drawing 092-7057



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	08/08/2011		BAC 08/08/2011				
24239	12/08/2014	A	TRS 12/08/2014				