

**SPECIFICATION SHEET****JFW MODEL 50SA-394****SWITCH ASSEMBLY**

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

Frequency Range	DC-18 GHz
Configuration	2 individually controlled 1P3T normally open reflective RF switches
Enclosure Type	19 inch rack mount @ 2RU high
Startup/Default States (configurable)	RF switches 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 GHz 1.5:1 maximum 12-18 GHz
Insertion Loss	0.2 dB maximum DC-4 GHz 0.3 dB maximum 4-8 GHz 0.4 dB maximum 8-12 GHz 0.5 dB maximum 12-18 GHz
Isolation	70 dB minimum DC-4 GHz 65 dB minimum 4-8 GHz 65 dB minimum 8-12 GHz 60 dB minimum 12-18 GHz
RF Input Power	50 Watts average (Cold-switched) 1 Watt average (Hot-Switched)
Switching Speed	20 milliseconds typical (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)
Control	Ethernet (DHCP, TCP/IP, 10/100, up to 12 users) RS-232 (up to 115200 Baud)

**--CONTINUED--**

**SPECIFICATION SHEET****JFW MODEL 50SA-394****SWITCH ASSEMBLY**

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

## Command Set

## RF Switch Control Commands:

Switch, Set Switch, Read Switch, Set All Switches,  
Read All Switches

## System Commands:

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

## AC Supply

Ethernet (DHCP, TCP/IP, 10/100, up to 12 users)  
RS-232 (up to 115200 Baud)

## Control Connectors

RJ-11 (Ethernet)  
DE-9P (RS-232)

## RF Connectors

SMA female

## Operating Temperature Range

0° to +65° C

## Physical Size

See outline drawing 092-7598

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	02/05/2013		BAC 02/05/2013				
24239	12/08/2014	A	TRS 12/08/2014				