

**SPECIFICATION SHEET**

**JFW MODEL 50SA-297**

**SWITCH ASSEMBLY**

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

Frequency Range	DC-12.4 GHz
Configuration	6 individually controlled 1P2T failsafe reflective electro-mechanical RF switches (J1 is failsafe port)
Enclosure Type	19 inch rack mount @ 3RU high
Startup/Default States (configurable)	RF switches to port J1 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	1.15:1 maximum DC-1GHz 1.25:1 maximum 1-4GHz 1.35:1 maximum 4-8GHz 1.50:1 maximum 8-12.4GHz
Insertion Loss	0.15 dB maximum DC-1GHz 0.25 dB maximum 1-4GHz 0.40 dB maximum 4-8GHz 0.50 dB maximum 8-12.4GHz
Isolation	85 dB minimum DC-1GHz 70 dB minimum 1-4GHz 60 dB minimum 4-8GHz 60 dB minimum 8-12.4GHz
RF Input Power (Cold Switched)	500 Watts average DC-1GHz 300 Watts average 1-4GHz 200 Watts average 4-8GHz 175 Watts average 8-12.4GHz
Switching Speed	20 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	Ethernet (DHCP, TCP/IP, 10/100, up to 12 users) RS-232 (up to 115200 Baud)

**--CONTINUED--**

**SPECIFICATION SHEET**

**JFW MODEL 50SA-297**

**SWITCH ASSEMBLY**

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

Remote Commands

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

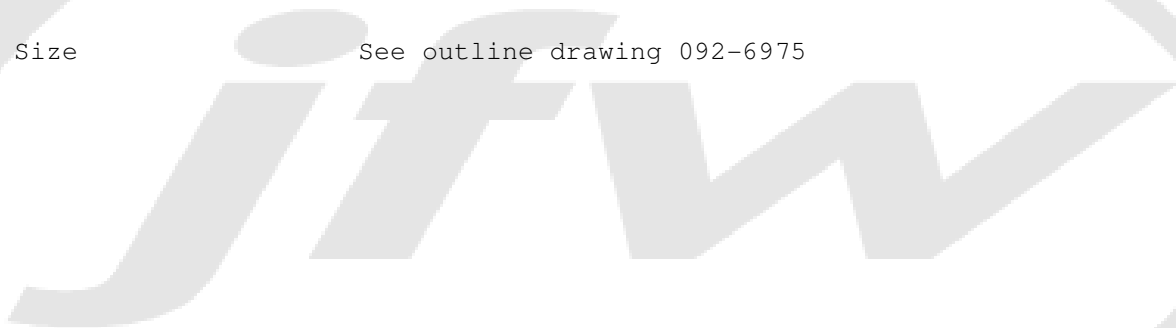
Lifetime (each switch) 1 million operations minimum

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

RF Connector N female

Operating Temperature Range 0° to +50° C

Physical Size See outline drawing 092-6975



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	05/12/2011		BAC 05/12/2011				
24239	12/08/2014	A	TRS 12/08/2014				