

**SPECIFICATION SHEET**

**JFW MODEL 50SA-232**

**SWITCH ASSEMBLY**

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

Frequency Range	DC-18 GHz
Configuration	2 individually controlled 1P6T normally open reflective electro-mechanical RF switches
Enclosure Type	Benchtop
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 60 dB minimum 8-12 GHz 60 dB minimum 12-18 GHz
RF Input Power	(Cold-switched) 400 Watts average DC-200MHZ 300 Watts average 200-500MHZ 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  (Hot-Switched) 1 Watt average
Switching Speed	20 milliseconds typical (after command is received and processed) (Typical processing time is 3msec.)
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)

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

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

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 092-6080

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	02/03/2009		BAC 02/03/2009	25620	08/05/2015	C	BAC 08/05/2015
23194	08/26/2013	A	TRS 08/26/2013				
24239	12/09/2014	B	TRS 12/09/2014				