

**SPECIFICATION SHEET**

**JFW MODEL 50BA-030-31**

**BENCHTOP PROGRAMMABLE ATTENUATOR ASSEMBLY**

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

Frequency Range	0.1-18 GHz
Configuration	One solid-state programmable attenuator
Enclosure Type	Mini-benchtop
Impedance	50 Ohms nominal
Attenuation Range	0-31 dB in 1 dB steps
Startup/Default States (configurable)	Maximum attenuation (see ATTEN STARTUP command) DHCP enabled (see NET command) 4 Ethernet users (see NET USERS command) Prompts off (see PROMPT command) Jog speed 5 (see JOG SPEED command)
VSWR	2.0:1 maximum < 1.7:1 typical
Attenuation Accuracy (guaranteed monotonic)	± 0.50 dB            1-8 dB ± 1.00 dB or 5%    9-31 dB (whichever is greater)
Insertion Loss	7.0 dB maximum 2.0 dB typical @ 0.1 GHz 3.2 dB typical @ 3 GHz 4.0 dB typical @ 6 GHz 5.5 dB typical @ 12.4 GHz 6.6 dB typical @ 18 GHz
RF Input Power	+20 dBm average +25 dBm (no damage)  Warning: DC coupled, DC voltage must not exceed 0 Volts on RF connectors
Switching Speed	1 microsecond typical (after command is received and processed) (3 milliseconds typical processing time)
DC Supply	+12 Vdc (100-240 VAC AC/DC transformer included)
Manual Control	Momentary Lever Actuator Switch with 7-Segment LED Displays (tap to step, hold to jog) (jog speed range is 0-10) (jog speed set to 0 will disable all levers)

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

Remote Commands Attenuator Control Commands:  
Atten, Set Attenuator, Read Attenuator, Fade Attenuator

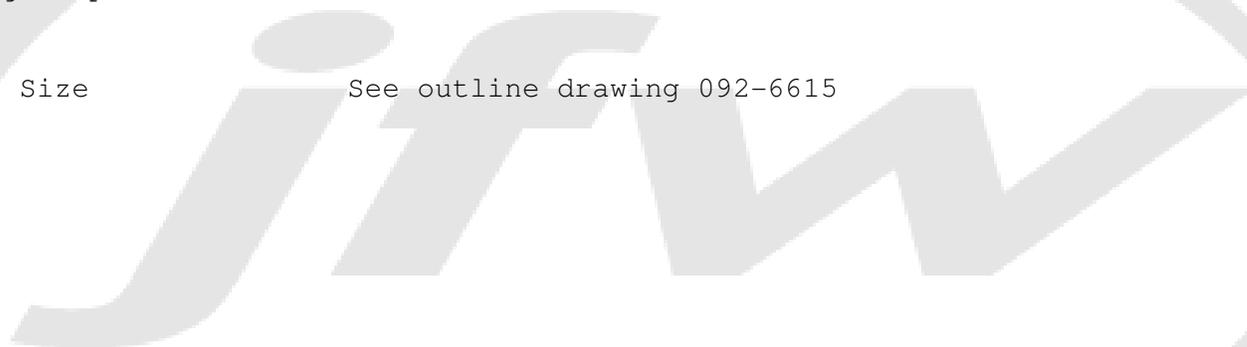
Switch Control Commands:  
Switch, Set Switch, Read Switch

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

RF Connector SMA female

Operating Temperature Range 0°C to +50°C

Physical Size See outline drawing 092-6615



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	09/26/2017		CLK 09/26/2017				
29100	10/22/2018	A	CLK 10/22/2018				