

SPECIFICATION SHEET**JFW MODEL 50BA-031-31****BENCHTOP PROGRAMMABLE ATTENUATOR ASSEMBLY**

JFW Industries, Inc.
Phone: 317-887-1340
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Frequency Range	0.1-18 GHz	
Configuration	Two individually controlled solid-state programmable attenuators	
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 ± 1.00 dB	1-8 dB 9-31 dB
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, Set All
Attenuators, Read All Attenuators, Read All
Extended, Fade Attenuator, Variable Attenuator
Handover, Block, Set Block, Read Block, Read All
Blocks, Fade Block, Variable Block Handover

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 092-6616

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	09/26/2017		CLK 09/26/2017				