

SPECIFICATION SHEET**JFW MODEL 50BA-022-31****PROGRAMMABLE ATTENUATOR ASSEMBLY**

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

Frequency Range	100 MHz-40 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)	Attenuator to 31dB at startup (see ATTEN command) DHCP enabled (see NET command) 4 Ethernet users (see NET command) Prompts off (see PROMPT command) All of these default settings can be changed by user. Unit can be configured for up to 12 Ethernet users.
VSWR	1.6:1 typical 100 MHz-18 GHz 1.8:1 typical 18-26.5 GHz 2.0:1 typical 26.5-40 GHz 2.8:1 maximum 100MHz-40 GHz
Attenuation Accuracy (Referenced to Insertion loss) (typically monotonic)	± 1.0 dB typical 100 MHz-18 GHz ± 1.5 dB typical 18-26.5 GHz ± 2.0 dB typical 26.5-40 GHz ± 3.5 dB maximum 100 MHz-40 GHz
Insertion Loss	1.8 dB typical @ 100 MHz 3.0 dB typical @ 3 GHz 4.5 dB typical @ 8 GHz 6.5 dB typical @ 18 GHz 8.5 dB typical @ 26.5 GHz 9.5 dB typical @ 40 GHz
RF Input Power	+20 dBm average +25 dBm (0.1dB compression)
Switching Speed	1 microsecond typical (after command is received and processed) (3 milliseconds typical processing time)
Manual Control	Momentary Lever Actuator Switches 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)
Remote Control	Ethernet (DHCP, TCP/IP, 10/100, up to 12 users) RS-232 (up to 115200 Baud)

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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

System Commands:

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

RF Connector

2.92mm female

Operating Temperature Range

0°C to +50°C

DC Supply

+12 Vdc
(100-240 VAC AC/DC transformer included)

Physical Size

See Outline Drawing 092-8740



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	11/14/2016		BAC 11/14/2016				
33255	03/15/2024	A	BAC 03/15/2024				