SPECIFICATION SHEET

JFW MODEL 50BA-031-31

BENCHTOP PROGRAMMABLE ATTENUATOR ASSEMBLY

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

Frequency Range 0.1-18 GHz

Configuration 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 \pm 0.50 dB 1-8 dB (guaranteed monotonic) \pm 1.00 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 0°C to +50°C

Range

Physical Size See outline drawing 092-6616

