

SPECIFICATION SHEET**JFW MODEL 50BA-024-62****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 0-62 dB in 1 dB steps

Startup/Default States (configurable) Attenuator to 62dB 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 100MHz-18 GHz
1.8:1 typical 18-26.5 GHz
2.2:1 typical 26.5-40 GHz
2.8:1 maximum 100MHz-40 GHz

Attenuation Accuracy (Referenced to Insertion loss) (typically monotonic) 0-31dB
± 1.0 dB typical 100MHz-18 GHz
± 1.5 dB typical 18-26.5 GHz
± 2.0 dB typical 26.5-40 GHz
± 3.5 dB maximum 100MHz-40 GHz

31-48dB
± 2.0 dB typical 100MHz-18 GHz
± 2.0 dB typical 18-26.5 GHz
± 4.0 dB typical 26.5-40 GHz
± 5.0 dB maximum 100MHz-40 GHz

49-62dB
± 3.0 dB typical 100MHz-18 GHz
± 3.0 dB typical 18-26.5 GHz
± 4.0 dB typical 26.5-40 GHz
± 8.0 dB maximum 100MHz-40 GHz

Insertion Loss 4.0 dB typical @ 100MHz
5.5 dB typical @ 3 GHz
8.0 dB typical @ 8 GHz
11.5 dB typical @ 18 GHz
15.0 dB typical @ 26.5 GHz
18.0 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)

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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)

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

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

Physical Size See Outline Drawing 092-8742

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