

SPECIFICATION SHEET

JFW MODEL 50BA-033-127

BENCHTOP PROGRAMMABLE ATTENUATOR ASSEMBLY

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

Frequency Range	30-3000 MHz
Configuration	One solid-state programmable attenuator
Enclosure Type	Mini-benchtop
Impedance	50 Ohms nominal
Attenuation Range	0-127 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 30-500 MHz 1.6:1 maximum 500-3000 MHz
Attenuation Accuracy	± 0.5 dB 1-7 dB ± 1.0 dB 8-11 dB ± 1.25 dB or 3% 12-127 dB (whichever is greater) (guaranteed monotonic)
Insertion Loss	7.2 dB maximum 3.9 dB typical @ 30 MHz 4.8 dB typical @ 500 MHz 6.5 dB typical @ 3000 MHz
RF Input Power	+27 dBm average +33 dBm (no damage)
Switching Speed	4 microseconds 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)
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, Fade Attenuator

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 or N female

Operating Temperature Range

0°C to +50°C

Outline Drawing Number

092-9065 (50BA-033-127 SMA)
092-7689 (50BA-033-127 N)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	04/11/2018		TRS 04/11/2018				
29383	03/11/2019	A	CLK 03/11/2019				
32074	08/17/2022	B	TRS 08/17/2022				