

**SPECIFICATION SHEET**

**JFW MODEL 50PA-1044-XX**

**PROGRAMMABLE ATTENUATOR ASSEMBLY**

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

Frequency Range	30-3000 MHz
Attenuation Range	0-127 dB in 1 dB steps
Configuration	Individually controlled solid-state programmable attenuators. Number of attenuators can be selected from 1 to 8 attenuators.
Enclosure Type	19 inch rack mount 2RU high (for 1-8 attenuators)
Impedance	50 Ohms nominal
Startup/Default States (configurable)	Maximum attenuation (see ATTEN command) DHCP enabled (see NET command) 4 Ethernet users (see NET command) Prompts off (see PROMPT command)
VSWR	2.0:1 maximum 30-500 MHz 1.6:1 maximum 500-3000 MHz
Attenuation Accuracy (guaranteed monotonic)	± 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)
Manual Control	20-Button Keypad and LCD display (IP Address configurable via keypad) (Net mask configurable via keypad) (Gateway configurable via keypad) (Baud rate configurable via keypad)
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

SMA or N female

Operating Temperature Range

0°C to +50°C

AC Supply

100-240 VAC @ 47-63 Hz

Outline Drawing Numbers

092-8261 (N female, 1-8 attenuators)  
092-8262 (SMA female, 1-8 attenuators)

Example Model Numbers

50PA-1044-01 SMA (1 attenuator)  
50PA-1044-02 SMA (2 attenuators)  
50PA-1044-03 SMA (3 attenuators)  
50PA-1044-04 SMA (4 attenuators)  
50PA-1044-05 SMA (5 attenuators)  
50PA-1044-06 SMA (6 attenuators)  
50PA-1044-07 SMA (7 attenuators)  
50PA-1044-08 SMA (8 attenuators)  
50PA-1044-01 N (1 attenuator)  
50PA-1044-08 N (8 attenuators)

Future Expansion

If your testing needs change, you can have your 50PA-1044-XX upgraded to have additional attenuators. This model is designed to control up to a maximum of 8 attenuators.

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	07/07/2017		CLK 07/07/2017	32074	08/17/2022	C	TRS 08/17/2022
28446	01/23/2018	A	CLK 01/23/2018				
29850	09/30/2019	B	TRS 09/30/2019				