

**SPECIFICATION SHEET**

**JFW MODEL 50PA-1183-XX**

**PROGRAMMABLE ATTENUATOR ASSEMBLY**

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

Frequency Range	200-8400 MHz
Attenuation Range	0-95 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
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 < 1.6:1 typical
Attenuation Accuracy (guaranteed monotonic)	± 0.50 dB      1-7 dB ± 0.60 dB      8-15 dB ± 0.85 dB      16-23 dB ± 1.00 dB or 4%      24-95 dB (whichever is greater)
Insertion Loss	8.0 dB maximum 4.5 dB typical @ 2000 MHz 5.0 dB typical @ 4000 MHz 7.4 dB typical @ 8400 MHz
RF Input Power	+24 dBm (operating - Input Side) +15 dBm (operating - Output Side)  +25 dBm (no damage - Input Side) +16 dBm (no damage - Output Side)
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)

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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

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 female

Operating Temperature Range 0°C to +50°C

AC Supply 100-240 VAC @ 47-63 Hz

Outline Drawing Number 092-9418-01

Example Model Numbers  
50PA-1183-01 SMA (1 attenuators)  
50PA-1183-02 SMA (2 attenuators)  
50PA-1183-03 SMA (3 attenuators)  
50PA-1183-04 SMA (4 attenuators)  
50PA-1183-05 SMA (5 attenuators)  
50PA-1183-06 SMA (6 attenuators)  
50PA-1183-07 SMA (7 attenuators)  
50PA-1183-08 SMA (8 attenuators)

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	08/21/2020		CLK 08/21/2020				
32487	03/15/2023	A	CLK 03/15/2023				
32622	07/06/2023	B	CLK 07/06/2023				