

**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	200-8000 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 ± 0.75 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 @ 2 GHz 5.0 dB typical @ 4 GHz 7.0 dB typical @ 8 GHz
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				