

**SPECIFICATION SHEET**

**JFW MODEL 50PA-203-XX**

**PROGRAMMABLE ATTENUATOR ASSEMBLY**

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

Frequency Range	200-6000 MHz
Attenuation Range	0-63 dB in 1 dB steps
Configuration	Individually controlled solid-state programmable attenuators. Number of attenuators can be selected from 9 to 16 attenuators.
Enclosure Type	19 inch rack mount (2RU high for 9-16 attenuators w/ SMA female) (3RU high for 9-12 attenuators w/ N female) (4RU high for 13-16 attenuators w/ N female)
Impedance	50 Ohms nominal
Startup/Default States (configurable)	Attenuators set to 63dB 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	1.8:1 maximum 200-800 MHz 1.6:1 maximum 800-6000 MHz
Attenuation Accuracy	± 0.50 dB 1-3 dB ± 0.75 dB 4-7 dB ± 1.00 dB 8-11 dB ± 1.25 dB or 4% 12-63 dB (whichever is greater) (guaranteed monotonic)
Insertion Loss	6.0 dB maximum 2.7 dB typical @ 200 MHz 3.0 dB typical @ 800 MHz 5.6 dB typical @ 6000 MHz
RF Input Power	+20 dBm average +25 dBm no damage
Switching Speed	1 microsecond 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                              N or SMA female

Operating Temperature Range        0°C to +50°C

AC Supply                                 100-240 VAC @ 47-63 Hz

Outline Drawing Numbers                092-8343 (SMA female, 9-16 attenuators)  
     092-8383 (N female, 9-12 attenuators)  
     092-8384 (N female, 13-16 attenuators)

Example Model Numbers                50PA-203-09 SMA (9 attenuator)  
     50PA-203-10 SMA (10 attenuators)  
     50PA-203-11 SMA (11 attenuators)  
     50PA-203-12 SMA (12 attenuators)  
     50PA-203-13 SMA (13 attenuators)  
     50PA-203-14 SMA (14 attenuators)  
     50PA-203-15 SMA (15 attenuators)  
     50PA-203-16 SMA (16 attenuators)  
     50PA-203-09 N (9 attenuator)  
     50PA-203-10 N (10 attenuators)  
     50PA-203-11 N (11 attenuators)  
     50PA-203-12 N (12 attenuators)  
     50PA-203-13 N (13 attenuators)  
     50PA-203-14 N (14 attenuators)  
     50PA-203-15 N (15 attenuators)  
     50PA-203-16 N (16 attenuators)

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	05/20/2004						
25586	07/28/2015	A	TRS 07/28/2015				
25640	08/10/2015	B	TRS 08/10/2015				