

SPECIFICATION SHEET

JFW MODEL 50PA-203-XX

PROGRAMMABLE ATTENUATOR ASSEMBLY

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

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| 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 | 6.6 dB maximum 2.7 dB typical @ 200 MHz 3.0 dB typical @ 700 MHz 3.7 dB typical @ 2000 MHz 6.3 dB typical @ 6000 MHz |
| RF Input Power | +27 dBm average +33 dBm no damage |
| Switching Speed | 3 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 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 | | | 28940 | 08/09/2018 | C | TRS 08/09/2018 |
| 25586 | 07/28/2015 | A | TRS 07/28/2015 | | | | |
| 25640 | 08/10/2015 | B | TRS 08/10/2015 | | | | |