

**SPECIFICATION SHEET**

**JFW MODEL 50PA-950**

**PROGRAMMABLE ATTENUATOR ASSEMBLY**

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

|  |   |
|--|---|
| Frequency Range                          | 500-6000 MHz  |
| Configuration                            | 4 x 8 Handover Test System<br>(see block diagram 092-6344 for attenuator addressing)<br>(all ports are bi-directional)<br>(full fan-out configuration)<br>(the ADMIN password is located on rear panel)   |
| Enclosure Type                           | 19 inch rack mount @ 6RU high   |
| Impedance                                | 50 Ohms nominal   |
| Attenuation Range                        | 0-95 dB in 1 dB steps   |
| Startup/Default States<br>(configurable) | Maximum attenuation (see ATTEN command)<br>DHCP enabled (see NET command)<br>4 Ethernet users (see NET command)<br>Prompts off (see PROMPT command)<br><br>All of these default settings can be changed by user.<br>Unit can be configured for up to 12 Ethernet users. |
| VSWR                                     | 1.8:1 maximum<br>< 1.6:1 typical (Inputs)<br>< 1.5:1 typical (Outputs)  |
| Insertion Loss                           | 36 dB maximum<br>34 dB typical  |
| Power Divider Isolation                  | 20 dB minimum   |
| Attenuation Accuracy                     | ± 0.50 dB            1-3 dB<br>± 0.75 dB            4-7 dB<br>± 1.00 dB            8-11 dB<br>± 1.25 dB or 4%    12-95 dB<br>(whichever is greater)<br>(guaranteed monotonic)   |
| RF Input Power                           | +33 dBm average (Input ports)<br>+30 dBm average (Output ports)   |
| Switching Speed                          | 4 microseconds typical<br>(after command is received and processed)<br>(3 milliseconds typical processing time)   |
| Manual Control                           | 20-Button Keypad and LCD display<br>(IP Address configurable via keypad)<br>(Net mask configurable via keypad)<br>(Gateway configurable via keypad)<br>(Baud rate configurable via keypad)  |
| Remote Control                           | Ethernet (DHCP, TCP/IP, 10/100, up to 12 users)<br>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

AC Supply

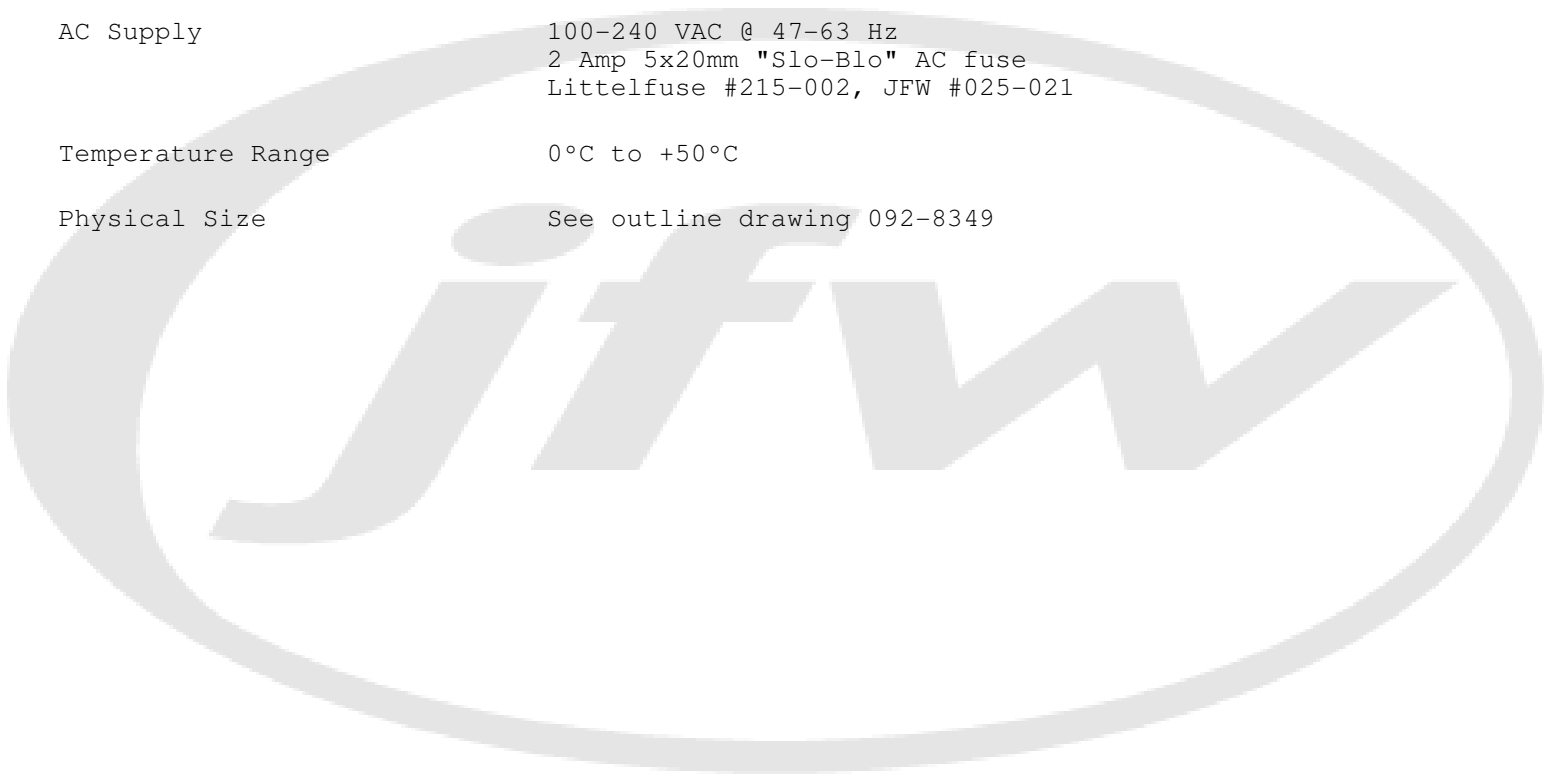
100-240 VAC @ 47-63 Hz  
2 Amp 5x20mm "Slo-Blo" AC fuse  
Littelfuse #215-002, JFW #025-021

Temperature Range

0°C to +50°C

Physical Size

See outline drawing 092-8349



| ECR/ECN # | DATE       | REV | APPR / DATE    | ECR/ECN # | DATE | REV | APPR / DATE |
|-----------|------------|-----|----------------|-----------|------|-----|-------------|
|           | 07/10/2015 |     | TRS 07/10/2015 |           |      |     |             |
| 28159     | 10/05/2017 | A   | CLK 10/05/2017 |           |      |     |             |
| 29691     | 07/29/2019 | B   | CLK 07/29/2019 |           |      |     |             |