

SPECIFICATION SHEET

JFW MODEL 50PA-1157-XX

PROGRAMMABLE ATTENUATOR ASSEMBLY

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

Frequency Range	0.1-18 GHz
Attenuation Range	0-63 dB in 0.5 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 (for 1-8 attenuators)
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) All of these default settings can be changed by user. Unit can be configured for up to 12 Ethernet users.
VSWR	2.2:1 maximum < 1.4:1 typical 0.1-6 GHz < 1.8:1 typical 6-18 GHz
Attenuation Accuracy	± 0.3 dB 0.5-3.5 dB ± 0.6 dB 4-14.5 dB ± 0.8 dB 15-31.5 dB ± 1.00 dB or 2% 32-63 dB (whichever is greater)
Insertion Loss	8.0 dB maximum 2.0 dB typical @ 0.1 GHz 4.0 dB typical @ 6 GHz 5.5 dB typical @ 12.4 GHz 7.5 dB typical @ 18 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	1 microsecond typical (after command is received and processed) (3 milliseconds typical processing time)

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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)

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 Numbers 092-9418-01 (1-8 attenuators)

Example Model Numbers
50PA-1157-01 SMA (1 attenuator)
50PA-1157-02 SMA (2 attenuators)
50PA-1157-03 SMA (3 attenuators)
50PA-1157-04 SMA (4 attenuators)
50PA-1157-05 SMA (5 attenuators)
50PA-1157-06 SMA (6 attenuators)
50PA-1157-07 SMA (7 attenuators)
50PA-1157-08 SMA (8 attenuators)

Future Expansion If your testing needs change, you can have your
50PA-1157-XX upgraded to have additional
attenuators. This model is designed to control
up to a maximum of 8 attenuators.

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	09/25/2019		CLK 09/25/2019				
30836	12/21/2020	A	TRS 12/21/2020				