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 \pm 0.3 dB 0.5-3.5 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)

(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

 $0^{\circ}C$ to $+50^{\circ}C$

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		
33269	03/27/2024	В	CLK 03/27/2024		

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