

SPECIFICATION SHEET

JFW MODEL 50PA-1147-XX

PROGRAMMABLE ATTENUATOR ASSEMBLY

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

Frequency Range	200-6000 MHz
Attenuation Range	0-95.5 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)	Attenuators to 95.5dB at startup (see ATTEN command) DHCP enabled (see NET command) 4 Ethernet users (see NET command) Prompts off (see PROMPT command)
VSWR	2.0:1 maximum < 1.6:1 typical
Attenuation Accuracy (guaranteed monotonic)	± 0.25 dB 0.5-1.0 dB ± 0.50 dB 1.5-8.0 dB ± 0.75 dB 8.5-16.0 dB ± 1.00 dB or 4% 16.5-95.5 dB (whichever is greater)
Insertion Loss	8.5 dB maximum 2.9 dB typical @ 200 MHz 3.5 dB typical @ 700 MHz 4.8 dB typical @ 3000 MHz 8.2 dB typical @ 6000 MHz
RF Input Power	+27 dBm average +33 dBm no damage
Switching Speed	4 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 092-8262 (SMA female, 1-8 attenuators)
092-8261 (N female, 1-8 attenuators)

Example Model Numbers
50PA-1147-01 SMA (1 attenuator)
50PA-1147-02 SMA (2 attenuators)
50PA-1147-03 SMA (3 attenuators)
50PA-1147-04 SMA (4 attenuators)
50PA-1147-05 SMA (5 attenuators)
50PA-1147-06 SMA (6 attenuators)
50PA-1147-07 SMA (7 attenuators)
50PA-1147-08 SMA (8 attenuators)
50PA-1147-01 N (1 attenuator)
50PA-1147-08 N (8 attenuators)

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	05/31/2019		CLK 05/31/2019				