

**SPECIFICATION SHEET**

**JFW MODEL 50PA-501**

**BENCHTOP PROGRAMMABLE ATTENUATOR ASSEMBLY**

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

Frequency Range	200-6000 MHz
Configuration	Four individually controlled solid-state programmable attenuators
Enclosure Type	Benchtop
Impedance	50 Ohms nominal
Attenuation Range	0-63.5 dB in 0.5 dB steps
Startup/Default States (configurable)	Maximum attenuation at startup (see ATTEN command) Maximum attenuation (see ATTEN command) DHCP enabled (see NET command) 4 Ethernet users (see NET USERS 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	1.9:1 maximum < 1.6:1 typical
Attenuation Accuracy (guaranteed monotonic)	± 0.25 dB            0.5-3.5 dB ± 0.50 dB            4.0-15.5 dB ± 1.00 dB or 3%    16.0-63.5 dB (whichever is greater) (guaranteed monotonic)
Insertion Loss	6.5 dB maximum 2.6 dB typical @ 200 MHz 2.8 dB typical @ 800 MHz 3.4 dB typical @ 2000 MHz 5.8 dB typical @ 6000 MHz
RF Input Power	+20 dBm average +25 dBm (no damage)
Switching Speed	1 microsecond 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)
Remote Control	Ethernet (DHCP, TCP/IP, 10/100, up to 12 users) 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

SMA or N female

AC Supply

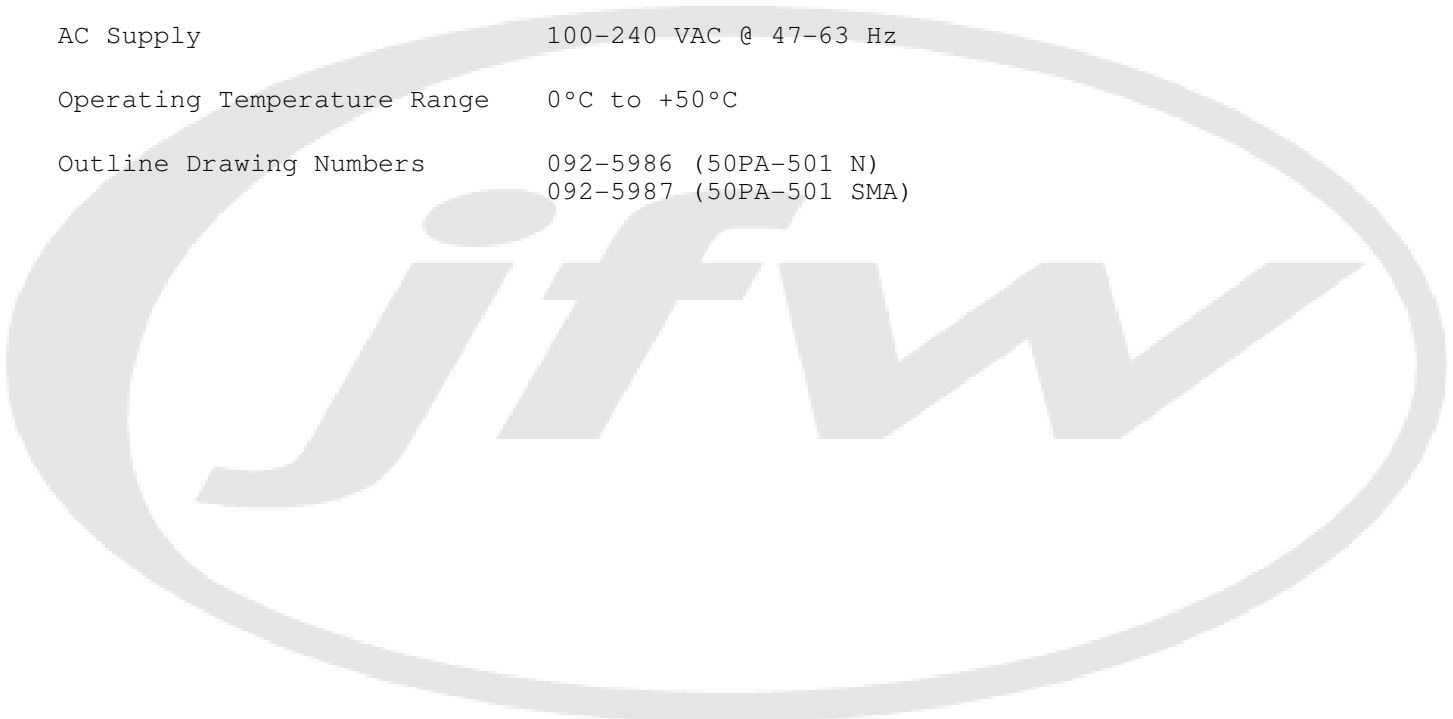
100-240 VAC @ 47-63 Hz

Operating Temperature Range

0°C to +50°C

Outline Drawing Numbers

092-5986 (50PA-501 N)  
092-5987 (50PA-501 SMA)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	08/06/2009		CLK 08/06/2009	18143	01/22/2010	C	CLK 01/22/2010
17674	09/11/2009	A	CLK 09/11/2009	27079	09/16/2016	D	TRS 09/16/2016
17971	12/16/2009	B	CLK 12/16/2009				