

**SPECIFICATION SHEET****JFW MODEL 75PA-123-XX****PROGRAMMABLE ATTENUATOR ASSEMBLY**

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

Frequency Range	5-2150 MHz
Configuration	Individually controlled solid-state programmable attenuators. Number of attenuators can be selected from 1 to 16 attenuators.
Enclosure Type	19 inch rack mount @ 2RU high
Impedance	75 Ohms nominal
RF Connector	F female
Attenuation Range	0-63 dB in 1 dB steps
VSWR	1.8:1 maximum < 1.4:1 typical 5-1218 MHz < 1.6:1 typical 1218-2150 MHz
Attenuation Accuracy (guaranteed monotonic)	$\pm 0.50$ dB            1-14 dB $\pm 0.75$ dB or 3%    15-63 dB (whichever is greater)
Insertion Loss	5.1 dB maximum 2.1 dB typical @ 5 MHz 3.2 dB typical @ 1218 MHz 3.9 dB typical @ 1800 MHz 4.2 dB typical @ 2150 MHz
RF Input Power	+23 dBm average
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)
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

#### Startup/Default States (configurable)

Maximum attenuation (see ATTEN STARTUP command)  
DHCP enabled (see NET command)  
4 Ethernet users (see NET USERS command)  
Prompts off (see PROMPT command)

#### AC Supply

100-240 VAC @ 47-63 Hz

#### Operating Temperature Range

0°C to +50°C

#### Physical Size

See outline drawing 092-8926

#### Example Model Numbers

75PA-123-01 F	(1 attenuator w/ F female)
75PA-123-02 F	(2 attenuators w/ F female)
75PA-123-04 F	(4 attenuators w/ F female)
75PA-123-08 F	(8 attenuators w/ F female)
75PA-123-10 F	(10 attenuators w/ F female)
75PA-123-12 F	(12 attenuators w/ F female)
75PA-123-14 F	(14 attenuators w/ F female)
75PA-123-16 F	(16 attenuators w/ F female)

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	06/22/2021		TRS 06/22/2021				
31843	06/23/2022	A	TRS 06/23/2022				