

SPECIFICATION SHEET

JFW MODEL 75PA-118-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	0-63.75 dB in 0.25 dB steps
VSWR	2.0:1 maximum < 1.6:1 typical 5-1218 MHz < 1.8:1 typical 1218-2150 MHz
Attenuation Accuracy (guaranteed monotonic)	± 0.25 dB 0.25-4.00 dB ± 0.30 dB 4.25-8.00 dB ± 0.50 dB 8.25-16.00 dB ± 0.75 dB or 3% 16.25-63.75 dB (whichever is greater)
Insertion Loss	6 dB maximum 2.0 dB typical @ 5 MHz 3.9 dB typical @ 1218 MHz 4.2 dB typical @ 1800 MHz 4.5 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
0.2 Amps @ 120 VAC nominal
0.1 Amps @ 240 VAC nominal
2 Amp 5x20mm "Slo-Blo" AC fuse
Littelfuse#215-002, JFW#025-021

Operating Temperature Range

0°C to +50°C

Outline Drawing Number

092-8926 (F female)

Example Model Numbers

75PA-118-01 (1 attenuator)
75PA-118-02 (2 attenuators)
75PA-118-04 (4 attenuators)
75PA-118-08 (8 attenuators)
75PA-118-10 (10 attenuators)
75PA-118-12 (12 attenuators)
75PA-118-14 (14 attenuators)
75PA-118-16 (16 attenuators)

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	02/01/2019		CLK 02/01/2019	32034	07/27/2022	C	TRS 07/27/2022
29465	04/19/2019	A	CLK 04/19/2019				
31843	06/23/2022	B	TRS 06/23/2022				