SPECIFICATION SHEET
JFW MODEL 50PA-1094-XX
PROGRAMMABLE ATTENUATOR ASSEMBLY

Frequency Range	0.1-18 GHz
Attenuation Range	0-31 dB in 1 dB steps
Configuration	Individually controlled solid-state programmable attenuators. Number of attenuators can be selected from 1 to 16 attenuators.
Enclosure Type	19 inch rack mount at 2RU high
Impedance	50 Ohms nominal
Startup/Default States (configurable)	Attenuators to 31dB at startup (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 < 1.7:1 typical
Attenuation Accuracy (Referenced to Insertion loss)	± 0.50 dB 1-8 dB ± 1.00 dB 9-16 dB ± 1.25 dB 17-31 dB
Insertion Loss	7.5 dB maximum 2.0 dB typical @ 0.1 GHz 3.2 dB typical @ 3 GHz 4.0 dB typical @ 6 GHz 5.5 dB typical @ 12.4 GHz 6.6 dB typical @ 18 GHz
RF Input Power	+20 dBm average +25 dBm (0.1dB compression) Warning: DC voltage not allowed on RF connections
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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JFW FORM E-7-F REV F

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°C to +50°C
AC Supply	100-240 VAC @ 47-63 Hz
Physical Size	See Outline Drawing 092-9082

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JFW FORM E-7-F REV F