

SPECIFICATION SHEET

JFW MODEL 50PA-1002-XX

PROGRAMMABLE ATTENUATOR ASSEMBLY

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

Frequency Range	3-40 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 2RU high (for 1-16 attenuators)
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	1.6:1 typical 3-18 GHz 1.8:1 typical 18-26.5 GHz 2.0:1 typical 26.5-40 GHz 2.8:1 maximum 3-40 GHz
Attenuation Accuracy (Referenced to Insertion loss)	± 0.5 dB typical 3-18 GHz ± 1.0 dB maximum 3-18 GHz ± 1.0 dB typical 18-26.5 GHz ± 2.0 dB maximum 18-26.5 GHz ± 1.5 dB typical 26.5-40 GHz ± 3.0 dB maximum 26.5-40 GHz
Insertion Loss	2.5 dB typical @ 3 GHz 4.0 dB typical @ 8 GHz 6.0 dB typical @ 18 GHz 7.5 dB typical @ 26.5 GHz 9.0 dB typical @ 40 GHz 10.0 dB maximum 3-40GHz
RF Input Power	+20 dBm average +25 dBm (0.1dB compression)
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)

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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

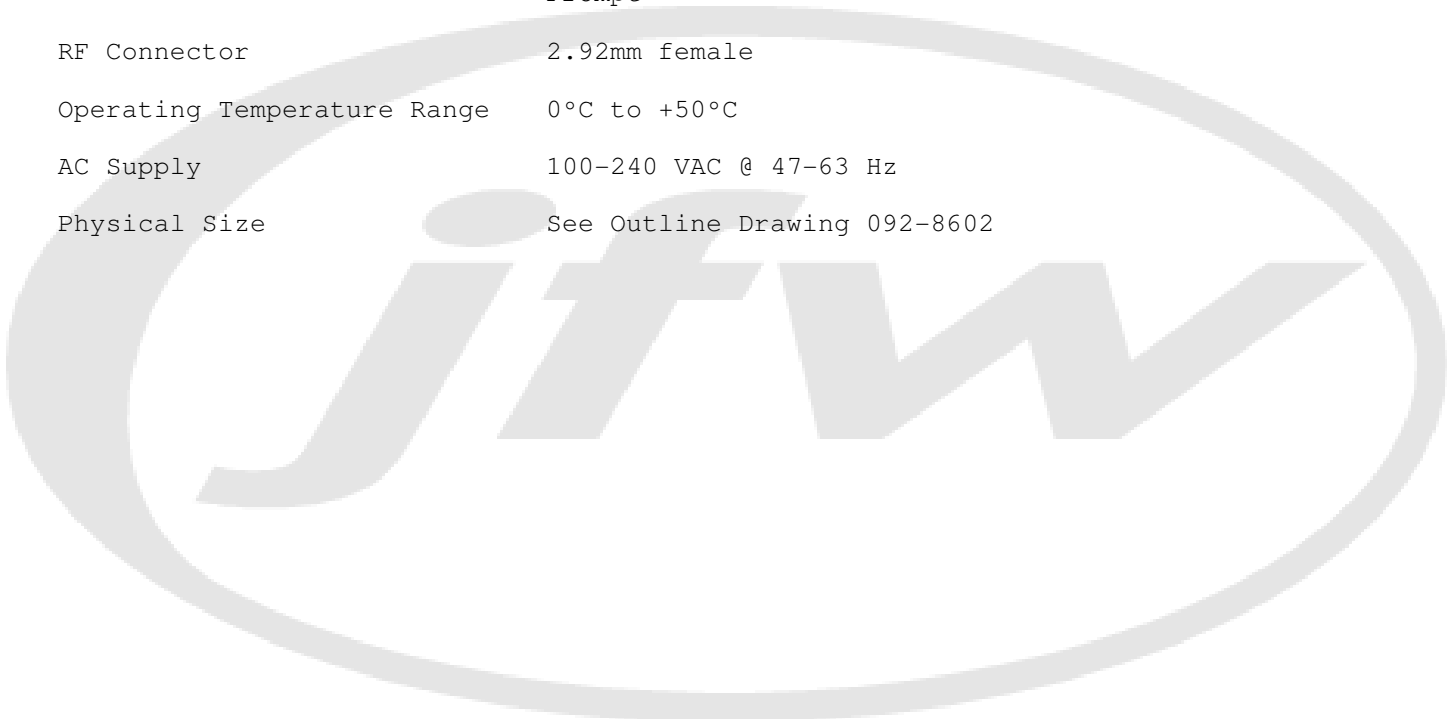
System Commands:
Help, Identification, Store, Recall, Pause, Net,
Serial, Close, Disconnect, MOTD, Date, Message,
Restrict, IDENT, Name, Show Users, Reboot, Uptime,
Prompt

RF Connector 2.92mm female

Operating Temperature Range 0°C to +50°C

AC Supply 100-240 VAC @ 47-63 Hz

Physical Size See Outline Drawing 092-8602



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	04/01/2016		TRS 04/01/2016				