SPECIFICATION SHEET

JFW MODEL 50PA-1002-XX

PROGRAMMABLE ATTENUATOR ASSEMBLY

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Frequency Range	100 MHz–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 100 MHz–18 GHz 1.8:1 typical 18–26.5 GHz 2.0:1 typical 26.5–40 GHz 2.8:1 maximum 100MHz–40 GHz
Attenuation Accuracy (Referenced to Insertion loss) (typically monotonic)	± 1.0 dB typical 100 MHz–18 GHz ± 1.5 dB typical 18–26.5 GHz ± 2.0 dB typical 26.5–40 GHz ± 3.5 dB maximum 100 MHz–40 GHz
Insertion Loss	1.8 dB typical @ 100 MHz 3.0 dB typical @ 3 GHz 4.5 dB typical @ 8 GHz 6.5 dB typical @ 18 GHz 8.5 dB typical @ 26.5 GHz 9.5 dB typical @ 40 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)

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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
Future Expansion	If your testing needs change, you can have your 50PA-1002-XX upgraded to have additional attenuators. This model is designed to control up to a maximum of 16 attenuators.

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	04/01/2016		TRS 04/01/2016	29850	09/30/2019	C	TRS 09/30/2019
26884	07/28/2016	A	BAC 07/28/2016	33255	03/15/2024	D	BAC 03/15/2024
29166	11/16/2018	B	TRS 11/16/2018				

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