SPECIFICATION SHEET

JFW MODEL 50PA-203-XX

PROGRAMMABLE ATTENUATOR ASSEMBLY

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

200-6000 MHz Frequency Range 0-63 dB in 1 dB steps Attenuation Range Configuration Individually controlled solid-state programmable attenuators. Number of attenuators can be selected from 9 to 16 attenuators. Enclosure Type 19 inch rack mount (2RU high for 9-16 attenuators w/ SMA female) (3RU high for 9-12 attenuators w/ N female) (4RU high for 13-16 attenuators w/ N female) 50 Ohms nominal Impedance Startup/Default States Attenuators set to 63dB at startup (see ATTEN command) (configurable) 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. 1.8:1 maximum 200-800 MHz VSWR 1.6:1 maximum 800-6000 MHz ± 0.50 dB 1-3 dB Attenuation Accuracy ± 0.75 dB 4-7 dB ± 1.00 dB 8-11 dB ± 1.25 dB or 4% 12-63 dB (whichever is greater) (guaranteed monotonic) 6.6 dB maximum Insertion Loss 2.7 dB typical @ 200 MHz 3.0 dB typical @ 700 MHz 3.7 dB typical @ 2000 MHz 6.3 dB typical @ 6000 MHz RF Input Power* +27 dBm average +33 dBm no damage Switching Speed 3 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)

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Demete Control	Ethemat (DUCD TOD (ID 10/100 \dots to 10 \dots to 20
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	N or SMA female
Operating Temperature Range	0°C to +50°C
AC Supply	100-240 VAC @ 47-63 Hz
Outline Drawing Numbers	092-8343 (SMA female, 9-16 attenuators) 092-8383 (N female, 9-12 attenuators) 092-8384 (N female, 13-16 attenuators)
Example Model Numbers	50PA-203-09 SMA (9 attenuator) 50PA-203-10 SMA (10 attenuators) 50PA-203-11 SMA (11 attenuators) 50PA-203-12 SMA (12 attenuators) 50PA-203-13 SMA (13 attenuators) 50PA-203-14 SMA (14 attenuators) 50PA-203-15 SMA (15 attenuators) 50PA-203-16 SMA (16 attenuators) 50PA-203-16 SMA (16 attenuators) 50PA-203-10 N (10 attenuators) 50PA-203-11 N (11 attenuators) 50PA-203-12 N (12 attenuators) 50PA-203-13 N (11 attenuators) 50PA-203-14 N (12 attenuators) 50PA-203-15 N (13 attenuators) 50PA-203-14 N (14 attenuators) 50PA-203-15 N (15 attenuators) 50PA-203-16 N (16 attenuators)
Future Expansion	If your testing needs change, you can have your 50PA-203-XX upgraded to have additional attenuators. This model is designed to control up to a maximum of 16 attenuators.

 \star Units shipped before 8/9/2018 (date code 1832) are only rated at +20dBm maximum. The JFW date code is a four digit code (YYWW) that follows the six digit serial number. For example date code 1908 is the 8th week of 2019.

ECR/ECN	# DATE	REV	APPR / DATE	ECR/ECN	# DATE	REV	APPR / DATE
	05/20/2004			28940	08/09/2018	С	TRS 08/09/2018
25586	07/28/2015	A	TRS 07/28/2015	29850	09/30/2019	D	TRS 09/30/2019
25640	08/10/2015	В	TRS 08/10/2015				