SPECIFICATION SHEET

JFW MODEL 50PA-233-XX

PROGRAMMABLE ATTENUATOR ASSEMBLY

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

Frequency Range 200-6000 MHz

Attenuation Range 0-63.5 dB in 0.5 dB steps

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)

Impedance 50 Ohms nominal

Startup/Default States Maximum attenuation 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.

VSWR 1.9:1 maximum < 1.6:1 typical

Attenuation Accuracy \pm 0.50 dB 0.5-7.5 dB

± 0.75 dB 8.0-15.5 dB ± 1.00 dB or 3% 16.0-63.5 dB

(whichever is greater)
(guaranteed monotonic)

Insertion Loss 6.6 dB maximum

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)

Remote Control Ethernet (DHCP, TCP/IP, 10/100, up to 12 users)

RS-232 (up to 115200 Baud)

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Attenuator Control Commands: Remote 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 $+50^{\circ}\text{C}$

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-233-09 SMA (9 attenuator)

50PA-233-10 SMA (10 attenuators) 50PA-233-11 SMA (11 attenuators) 50PA-233-12 SMA (12 attenuators) 50PA-233-13 SMA (13 attenuators) 50PA-233-14 SMA (14 attenuators) 50PA-233-15 SMA (15 attenuators) 50PA-233-16 SMA (16 attenuators) 50PA-233-09 N (9 attenuator) 50PA-233-10 N (10 attenuators) 50PA-233-11 N (11 attenuators) 50PA-233-12 N (12 attenuators) 50PA-233-13 N (13 attenuators) 50PA-233-14 N (14 attenuators) 50PA-233-15 N (15 attenuators) 50PA-233-16 N (16 attenuators)

Future Expansion

If your testing needs change, you can have your 50PA-233-XX upgraded to have additional attenuators. This model is designed to control up to a maximum of 16 attenuators.

* 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
	09/16/2016		TRS 09/16/2016	29850	09/30/2019	С	TRS 09/30/2019
28940	08/09/2018	A	TRS 08/09/2018	29857	10/02/2019	D	TRS 10/02/2019
29022	09/19/2018	В	TRS 09/19/2018				

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