

SPECIFICATION SHEET**JFW MODEL 50PA-233-XX****PROGRAMMABLE ATTENUATOR ASSEMBLY**

JFW Industries, Inc.
Phone: 317-887-1340
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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 (configurable)	Maximum attenuation 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	1.9:1 maximum < 1.6:1 typical
Attenuation Accuracy	± 0.25 dB 0.5-3.5 dB ± 0.50 dB 4.0-15.5 dB ± 1.00 dB or 3% 16.0-63.5 dB (whichever is greater) (guaranteed monotonic)
Insertion Loss	6.5 dB maximum 2.6 dB typical @ 200 MHz 2.8 dB typical @ 800 MHz 3.4 dB typical @ 2000 MHz 5.8 dB typical @ 6000 MHz
RF Input Power	+20 dBm average +25 dBm no damage
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 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-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)

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	09/16/2016		TRS 09/16/2016				