SPECIFICATION SHEET

JFW MODEL 50PA-1068

PROGRAMMABLE ATTENUATOR ASSEMBLY

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

Frequency Range	200-6000 MHz
Attenuation Range	0-95 dB in 1 dB steps
Configuration	Modular programable attenuator assembly (control module can control up to 8 attenuator modules) (SMA attenuator modules have 24 attenuators per module) (N attenuator modules have 12 attenuators per module) (all RF connectors located on rear panel) (modules are 19 inch rack mount) (see drawing 092-8988 for 5 module assembly example)

Available Module Part Numbers:

50PA-1068	(control module with keypad/display)
013-1350-SMA-1-24	(SMA attenuator module with attenuators #1 thru #24)
013-1350-SMA-25-48	(SMA attenuator module with attenuators #25 thru #48)
013-1350-SMA-49-72	(SMA attenuator module with attenuators #49 thru #72)
013-1350-SMA-73-96	(SMA attenuator module with attenuators #73 thru #96)
013-1350-SMA-97-120	(SMA attenuator module with attenuators #97 thru #120)
013-1350-SMA-121-144	(SMA attenuator module with attenuators #121 thru #144)
013-1350-SMA-145-168	(SMA attenuator module with attenuators #145 thru #168)
013-1350-SMA-169-192	(SMA attenuator module with attenuators #169 thru #192)
013-1351-N-1-12	(N attenuator module with attenuators #1 thru #12)
013-1351-N-13-24	(N attenuator module with attenuators #13 thru #24)
013-1351-N-25-36	(N attenuator module with attenuators #25 thru #36)
013-1351-N-37-48	(N attenuator module with attenuators #37 thru #48)
013-1351-N-49-60	(N attenuator module with attenuators #49 thru #60)
013-1351-N-61-72	(N attenuator module with attenuators #61 thru #72)
013-1351-N-73-84	(N attenuator module with attenuators #73 thru #84)
013-1351-N-85-96	(N attenuator module with attenuators #85 thru #96)

Impedance	50 Ohms nominal
VSWR	2.0:1 maximum < 1.9:1 typical 200-700 MHz < 1.6:1 typical 700-6000 MHz
Attenuation Accuracy	± 0.50 dB 1-3 dB ± 0.75 dB 4-7 dB ± 1.00 dB 8-11 dB ± 1.25 dB or 4% 12-95 dB (whichever is greater) (guaranteed monotonic)
Insertion Loss	8.5 dB maximum 4.0 dB typical @ 200 MHz 4.5 dB typical @ 700 MHz 8.2 dB typical @ 6000 MHz

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RF Input Power	+27 dBm average +33 dBm no damage
Switching Speed	4 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)
Startup/Default States (configurable)	Attenuators to 95dB 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.
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	092-8988-01 (controller module with keypad/display) 092-8988-02 (SMA module with 24 attenuators) 092-8988-03 (N module with 12 attenuators) 092-8988-04 (SMA module with 16 attenuators) 092-8988 (example of 5 module assembly)

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	12/20/2017		TRS 12/20/2017				
30504	07/02/2020	A	TRS 07/02/2020				