

**SPECIFICATION SHEET**

**JFW MODEL 50PA-521**

**BENCHTOP PROGRAMMABLE ATTENUATOR ASSEMBLY**

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

Frequency Range	200-6000 MHz
Configuration	Eight individually controlled solid-state programmable attenuators
Impedance	50 Ohms nominal
Attenuation Range	0-95 dB in 1 dB steps
VSWR	2.0:1 maximum
Attenuation Accuracy (guaranteed monotonic)	$\pm 0.50$ dB            1-3 dB $\pm 0.75$ dB            4-7 dB $\pm 1.00$ dB            8-11 dB $\pm 1.25$ dB or 4%    12-95 dB (whichever is greater)
Insertion Loss	8.5 dB maximum 8.0 dB typical
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)
AC Supply	100-240 VAC @ 47-63 Hz
Manual Control	20-Button Keypad and LCD display
Remote Control	RS-232 (9600, 19200, or 38400 Baud) Ethernet (TCP, 10/100, up to 4 users)
Remote Commands	Attenuator Control Commands: Set Attenuator, Set Attenuator with Response, Read Attenuator, Set All Attenuators, Read All Attenuators, Set Multiple Attenuator, Fade Attenuator, Variable Handover, Store, Recall  System Commands: Identification, Pause -RS-232 Only: Change Baud -Ethernet Only: Disconnect, Close, Message, Clear

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RF Connector SMA female  
Operating Temperature Range 0°C to +50°C  
Physical Size See outline drawing 092-5988 (SMA)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	12/09/2009		TRS 12/09/2009				
18204	01/27/2010	A	CLK 01/27/2010				
20305	07/08/2011	B	CLK 07/08/2011				