

**SPECIFICATION SHEET**  
**JFW MODEL 50PMA-151**  
**TRANSCEIVER TEST SYSTEM**

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

Frequency Range	2-8 GHz
Configuration	8 Port Transceiver Test System (see block diagram 092-5910 for attenuator addressing) (all ports are bi-directional) (full fan-out i.e. every path has its own attenuator) (the ADMIN password is located on rear panel)
Enclosure Type	19 inch rack mount @ 4RU high
Impedance	50 Ohms nominal
Attenuation Range	0-63 dB in 1 dB steps
Startup/Default States (configurable)	Maximum attenuation (see ATTEN STARTUP command) DHCP enabled (see NET command) 4 Ethernet users (see NET USERS command) Prompts off (see PROMPT command)
VSWR	1.8:1 maximum
Attenuation Accuracy (guaranteed monotonic)	$\pm 0.5$ dB            1-15 dB $\pm 0.8$ dB            16-31 dB $\pm 1.25$ dB or 3%*    32-63 dB * - whichever is greater
Insertion Loss	39 dB maximum 32 dB typical @ 2 GHz 36 dB typical @ 8 GHz
Power Divider Isolation	21 dB minimum
RF Input Power	1 Watt average
Switching Speed	4 microseconds typical (after command is received and processed) (3 milliseconds typical processing time)
AC Supply	100-240 VAC @ 47-63 Hz 4 Amp 5x20mm "Slo-Blo" AC fuse Littelfuse #215-004, JFW #025-018
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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Remote Commands

Attenuator Control Commands:

Atten, Set Path, Read Path, Read All Paths, 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

Physical Size

See outline drawing: 092-7357 (SMA)  
092-9404 (N)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	06/18/2019		CLK 06/18/2019				
29933	11/11/2019	A	CLK 11/11/2019				