

**SPECIFICATION SHEET**  
**JFW MODEL 50PMA-055**  
**TRANSCEIVER TEST SYSTEM**

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

Frequency Range	30-3000 MHz
Configuration	16 Port Transceiver Test System (see block diagram 092-6753 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 @ 19RU high
Impedance	50 Ohms nominal
Attenuation Range	0-95 dB in 1 dB steps
Startup/Default States (configurable)	Attenuators to 95dB at startup (see ATTEN command) DHCP enabled (see NET command) 4 Ethernet users (see NET USERS 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	1.8:1 maximum
Attenuation Accuracy	$\pm 0.50$ dB      1-7dB $\pm 1.00$ dB      8-11dB $\pm 1.25$ or 3%    12-95dB (whichever is greater) (guaranteed monotonic)
Insertion Loss	45 dB nominal
Power Divider Isolation	20 dB minimum
RF Input Power	1 Watt average
Switching Speed	4 microseconds (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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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, SMA or TNC female

Operating Temperature Range

0°C to +50°C

AC Supply

100-240 VAC @ 47-63 Hz  
4 Amp 5x20mm "Slo-Blo" AC fuse  
Littelfuse #215-004, JFW #025-018

Castors Option

For a version of the test system that is mounted to a plate with castors, add "-CASTORS" to the model number (i.e. 50PMA-055 SMA-CASTORS)

Outline Drawing Numbers

092-7369 (50PMA-055 SMA)  
092-7369-01 (50PMA-055 N)  
092-7369-02 (50PMA-055 SMA-CASTORS)

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
22421	01/23/2013	C	TRS 01/23/2013	24239	09/09/2014	F	TRS 09/09/2014
23648	01/16/2014	D	TRS 01/16/2014	26282	02/05/2016	G	TRS 02/05/2016
24127	05/15/2014	E	BAC 05/15/2014	28159	10/05/2017	H	CLK 10/05/2017