

**SPECIFICATION SHEET**  
**JFW MODEL 50PMA-099**  
**TRANSCEIVER TEST SYSTEM**

JFW Industries, Inc.  
Phone: 317-887-1340  
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Frequency Range	30-2000 MHz
Configuration	16 Port Transceiver Test System with 6 RF Hubs (See block diagram 092-6103) (all ports are bi-directional) (limited fan-out configuration) (the ADMIN password is located on rear panel)
Enclosure Type	19 inch rack mount @ 5RU high
Impedance	50 Ohms nominal
Switch Range	J0-J6 (electro-mechanical)
Attenuation Range	0-63 dB in 1 dB steps (solid-state)
Startup/Default States (configurable)	All switches off at startup (see SWITCH command) All attenuators 63dB 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	1.8:1 maximum < 1.6:1 typical
Attenuation Accuracy (guaranteed monotonic)	1-15 dB ± 0.7 dB 16-63 dB ± 1.0 dB or 4%
Insertion Loss	35.0 dB maximum 28.5 dB typical @ 30 MHz 31.9 dB typical @ 3000 MHz
Isolation (Input to Input)	100 dB minimum (each Input set to different RF Hub)
RF Input Power	+20 dBm average +24 dBm (0.1 dB compression)
Switching Speed	1 microsecond for Attenuators 15 milliseconds typical for Switches (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

Switch Control Commands:  
 Switch, Set Switch, Read Switch, Set All Switches,  
 Read All Switches

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

SMA female

AC Supply

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

Operating Temperature Range

0°C to +50°C

Physical Size

See outline drawing 092-8265

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	03/19/2015		BAC 03/19/2015				
25671	08/19/2015	A	TRS 08/19/2015				