

SPECIFICATION SHEET
JFW MODEL 50PMA-180
TRANSCEIVER TEST SYSTEM

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

Frequency Range	2-30 MHz
Configuration	6 Port Transceiver Test System (See Block Diagram 092-7697) (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 @ 3RU high
Impedance	50 Ohms nominal
Attenuation Range	0-95 dB in 1 dB steps
VSWR	1.6:1 maximum 1.3:1 typical
Attenuation Accuracy (guaranteed monotonic)	± 0.50 dB 1-7 dB ± 1.00 dB 8-11 dB ± 1.25 or 3% 12-95 dB (whichever is greater)
Insertion Loss	31 dB maximum 29 dB typical
RF Input Power	+30 dBm average
Power Divider Isolation	30 dB minimum 38 dB typical
Switching Speed	4 microseconds typical (after command is received and processed) (3 milliseconds typical processing time)
Remote Control	Ethernet (DHCP, TCP/IP, 10/100, up to 12 users) RS-232 (up to 115200 Baud)
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)

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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

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

RF Connector

N, SMA or TNC female

Operating Temperature Range

0°C to +50°C

AC Supply

100-240 VAC @ 47-63 Hz

Outline Drawing Numbers

092-6472 (SMA female)
 092-6472-01 (N female)
 092-7696 (TNC female)

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	10/19/2022		TRS 10/19/2022				
33227	03/05/2024	A	TRS 03/05/2024				