

SPECIFICATION SHEET
JFW MODEL 50PMA-109
TRANSCEIVER TEST SYSTEM

JFW Industries, Inc.
Phone: 317-887-1340
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Frequency Range 30-3000 MHz

Configuration 24 Port LC16 Limited Fan-out Transceiver Test System
(see 092-8617 for block diagram)
(see 092-8618 for attenuator address chart)
(all ports are bi-directional)
(the ADMIN password is located on rear panel)

Limited Fan-out Description 24 Port LC16 means that each of the 24 ports is
connection limited to only its 16 neighboring ports.
See 092-8618 for a connection example and the chart
for all internal connections through the matrix.

Enclosure Type 19 inch rack mount @ 13RU 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 ± 0.50 dB 1-7dB
± 1.00 dB 8-11dB
± 1.25 or 3% 12-95dB
(whichever is greater)
(guaranteed monotonic)

Insertion Loss 45.7 dB typical
49.1 dB maximum

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)

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Remote Control Ethernet (DHCP, TCP/IP, 10/100, up to 12 users)
 RS-232 (up to 115200 Baud)

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

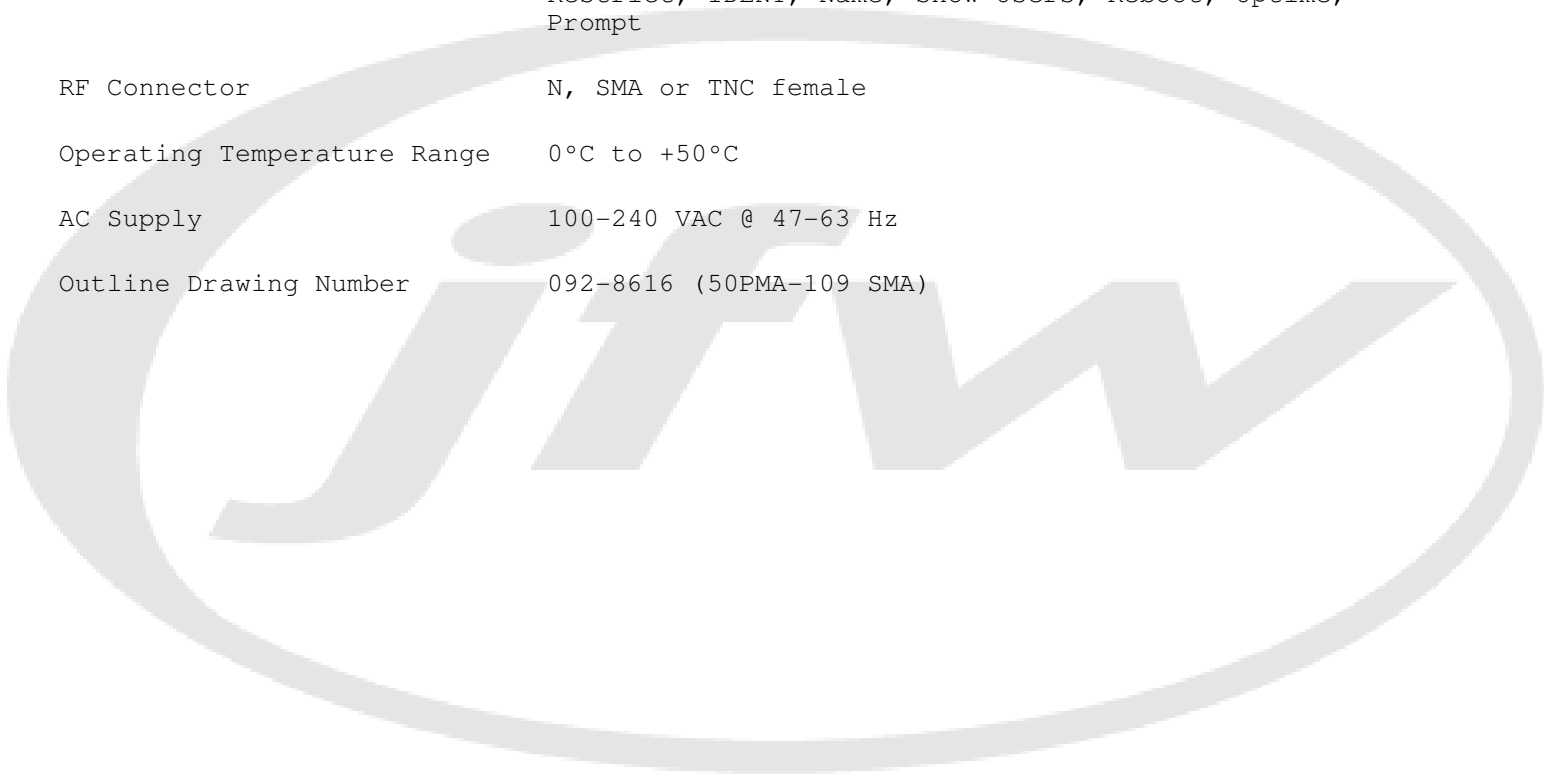
System Commands:
 Help, Identification, Store, Recall, Pause, Net,
 Serial, Close, Disconnect, MOTD, Date, Message,
 Restrict, IDENT, Name, Show Users, Reboot, Uptime,
 Prompt

RF Connector N, SMA or TNC female

Operating Temperature Range 0°C to +50°C

AC Supply 100-240 VAC @ 47-63 Hz

Outline Drawing Number 092-8616 (50PMA-109 SMA)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	04/26/2016		TRS 04/26/2016				
28159	10/05/2017	A	CLK 10/05/2017				