

SPECIFICATION SHEET
JFW MODEL 50PMA-098
TRANSCEIVER TEST SYSTEM

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

Frequency Range 2-6 GHz

Configuration 5 Port Transceiver Test System
(see block diagram 092-6730 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" rack mount @ 2RU high

Impedance 50 Ohms nominal

Attenuation Range 0-95 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)
Prompt = "JFW>> " (see PROMPT command)

VSWR 1.7:1 maximum
1.5:1 typical

Attenuation Accuracy ± 0.7 dB 1-7 dB
± 1.0 dB 8-11 dB
± 1.25 dB or 4% 12-95 dB
(whichever is greater)
(guaranteed monotonic)

Insertion Loss 29 dB maximum
23 dB typical @ 2 GHz
27 dB typical @ 6 GHz

Power Divider Isolation 20 dB minimum
23 dB typical

RF Input Power 1 Watt average

Switching Speed 4 microseconds (after command received and processed)
(3 milliseconds typical processing time)

AC Supply 100-240 VAC @ 47-63 Hz
2 Amp 5x20mm "Slo-Blo" AC fuse
Littelfuse #215-002, JFW #025-021

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, Set 2nd 32dB Bit

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

Operating Temperature Range

0°C to +50°C

Physical Size

See outline drawing 092-6729



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	01/09/2015		CLK 01/09/2015				
28159	10/05/2017	A	CLK 10/05/2017				