

SPECIFICATION SHEET

JFW MODEL 50PA-628

BENCHTOP PROGRAMMABLE ATTENUATOR ASSEMBLY

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

| | |
|--|--|
| Frequency Range | 200-6000 MHz |
| Configuration | Twelve individually controlled solid-state programmable attenuators |
| Enclosure Type | Benchtop |
| Impedance | 50 Ohms nominal |
| Attenuation Range | 0-63 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) Prompts off (see PROMPT command) |
| VSWR | 1.8:1 maximum 200-800 MHz 1.6:1 maximum 800-6000 MHz |
| Attenuation Accuracy (guaranteed monotonic) | ± 0.50 dB 1-3 dB ± 0.75 dB 4-7 dB ± 1.00 dB 8-11 dB ± 1.25 dB or 4% 12-63 dB (whichever is greater) |
| Insertion Loss | 6.6 dB maximum 2.7 dB typical @ 200 MHz 3.0 dB typical @ 700 MHz 3.7 dB typical @ 2000 MHz 6.3 dB typical @ 6000 MHz |
| RF Input Power* | +27 dBm average +33 dBm (no damage) |
| Switching Speed | 3 microseconds typical (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 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 or SMA female

Operating Temperature Range

0°C to +50°C

AC Supply

100-240 VAC @ 47-63 Hz

Outline Drawing Numbers

092-6055 (50PA-628 SMA)
092-9409 (50PA-628 N)

* Units shipped before 8/9/2018 (date code 1832) are only rated at +20dBm maximum. The JFW date code is a four digit code (YYWW) that follows the six digit serial number. For example date code 1908 is the 8th week of 2019.

| ECR/ECN # | DATE | REV | APPR / DATE | ECR/ECN # | DATE | REV | APPR / DATE |
|-----------|------------|-----|----------------|-----------|------------|-----|----------------|
| | 12/08/2010 | | CLK 12/08/2010 | 28940 | 08/09/2018 | C | TRS 08/09/2018 |
| 22897 | 05/30/2013 | A | CLK 05/30/2013 | 29831 | 09/20/2019 | D | TRS 09/20/2019 |
| 24239 | 07/03/2014 | B | TRS 07/03/2014 | 29857 | 10/02/2019 | E | TRS 10/02/2019 |