

**SPECIFICATION SHEET**

**JFW MODEL 50PA-880**

**PROGRAMMABLE ATTENUATOR ASSEMBLY**

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

|   |  |
|---|--|
| Frequency Range                             | 200-6000 MHz   |
| Configuration                               | 48 individually controlled solid-state programmable attenuators  |
| Enclosure Type                              | 19 inch rack mount @ 4RU high  |
| Impedance                                   | 50 Ohms nominal  |
| Attenuation Range                           | 0-95 dB in 1 dB steps  |
| Startup/Default States (configurable)       | Maximum attenuation (see ATTEN STARTUP command)<br>DHCP enabled (see NET command)<br>4 Ethernet users (see NET USERS command)<br>Prompts off (see PROMPT command)                          |
| VSWR  | 2.0:1 maximum<br>< 1.9:1 typical   |
| Attenuation Accuracy (guaranteed monotonic) | ± 0.7 dB            1-7 dB<br>± 1.0 dB            8-11 dB<br>± 1.25 dB or 4%    12-95 dB<br>(whichever is greater)   |
| Insertion Loss                              | 8.8 dB maximum<br>3.8 dB typical @ 200 MHz<br>8.0 dB typical @ 6000 MHz  |
| RF Input Power*                             | +27 dBm average<br>+33 dBm (no damage)   |
| Switching Speed                             | 4 microseconds typical<br>(after command is received and processed)<br>(3 milliseconds typical processing time)  |
| AC Supply                                   | 100-240 VAC @ 47-63 Hz<br>2 Amp 5x20mm "Slo-Blo" AC fuse<br>Littelfuse#215-002, JFW#025-021  |
| Manual Control                              | 20-Button Keypad and LCD display<br>(IP Address configurable via keypad)<br>(Net mask configurable via keypad)<br>(Gateway configurable via keypad)<br>(Baud rate configurable via keypad) |
| Remote Control                              | Ethernet (DHCP, TCP/IP, 10/100, up to 12 users)<br>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

SMA female

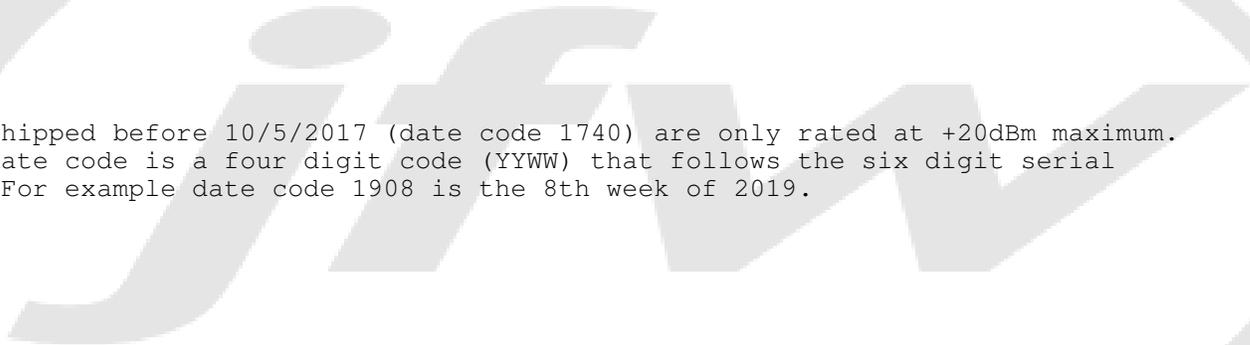
Operating Temperature Range

0°C to +50°C

Physical Size

See outline drawing 092-6805

\* Units shipped before 10/5/2017 (date code 1740) 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 |
|-----------|------------|-----|----------------|-----------|------|-----|-------------|
|           | 07/03/2014 |     | TRS 07/03/2014 |           |      |     |             |
| 28159     | 10/05/2017 | A   | CLK 10/05/2017 |           |      |     |             |
| 29857     | 10/02/2019 | B   | TRS 10/03/2019 |           |      |     |             |