

**SPECIFICATION SHEET**  
**JFW MODEL 50P-1978**  
**RELAY PROGRAMMABLE ATTENUATOR**

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|                             |   |
|-----------------------------|---|
| Frequency Range             | DC-2700 MHz   |
| Impedance                   | 50 Ohms nominal   |
| Attenuation Range           | 0-63 dB in 1 dB steps   |
| Attenuation Steps           | 1, 2, 4, 8, 16, and 32 dB   |
| VSWR                        | 1.5:1 maximum<br>1.4:1 typical  |
| Attenuation Accuracy        | ± 0.5 dB or 2% (nominal)<br>± 0.75 dB or 2% (maximum)<br>(whichever is greater)<br>(guaranteed monotonic)                         |
| Insertion Loss              | 4.0 dB maximum<br>1.0 dB typical @ 500 MHz<br>1.7 dB typical @ 1000 MHz<br>3.0 dB typical @ 2000 MHz<br>3.4 dB typical @ 2700 MHz |
| RF Input Power              | 2 Watts average   |
| Switching Speed             | 6 milliseconds maximum  |
| Control                     | +12 Vdc at 15 mA (1, 2, 4, 8, 16dB)<br>+12 Vdc at 60 mA (32dB)  |
| RF Connector                | SMA female  |
| Operating Temperature Range | -20°C to +85°C  |
| Physical Size               | See outline drawing 092-2614  |

| ECR/ECN # | DATE       | REV | APPR / DATE    | ECR/ECN # | DATE | REV | APPR / DATE |
|-----------|------------|-----|----------------|-----------|------|-----|-------------|
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