

**SPECIFICATION SHEET****JFW MODEL 50P-1582****SOLID STATE PROGRAMMABLE ATTENUATOR**

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|                                                |                                                                                             |
|------------------------------------------------|---------------------------------------------------------------------------------------------|
| Frequency Range                                | 800-2200 MHz                                                                                |
| Impedance                                      | 50 Ohms nominal                                                                             |
| Attenuation Range                              | 0-1.5 dB in 0.1 dB steps                                                                    |
| Attenuation Steps                              | 0.1, 0.2, 0.4, and 0.8 dB                                                                   |
| VSWR                                           | 1.5:1 maximum                                                                               |
| Attenuation Accuracy<br>(guaranteed monotonic) | 0.1 dB $\pm$ 0.05 dB<br>0.2 dB $\pm$ 0.075 dB<br>0.4 dB $\pm$ 0.1 dB<br>0.8 dB $\pm$ 0.2 dB |
| Insertion Loss                                 | 0.5 dB nominal<br>1.0 dB maximum                                                            |
| RF Input Power                                 | +20 dBm average<br>+30 dBm (no damage)                                                      |
| Switching Speed                                | 5 microseconds maximum<br>2 microseconds typical                                            |
| 3rd Order Intercept Point                      | +41.5 dBm typical                                                                           |
| DC Supply                                      | +5 Vdc @ 15 mA nominal                                                                      |
| Control Logic (4 Lines)                        | TTL Low for Thru Path<br>TTL High for Attenuation                                           |
| DC Connector                                   | T & B #609-1057                                                                             |
| RF Connector                                   | SMA female                                                                                  |
| Operating Temperature Range                    | 0°C to +70°C                                                                                |
| Physical Size                                  | See outline drawing 092-4110                                                                |

| ECR/ECN # | DATE       | REV | APPR / DATE    | ECR/ECN # | DATE       | REV | APPR / DATE    |
|-----------|------------|-----|----------------|-----------|------------|-----|----------------|
|           | 12/09/2002 |     | TRS 12/09/2002 | 4109      | 03/06/2003 | C   | CLV 03/06/2003 |
| 4105      | 03/03/2003 | A   | CLV 03/03/2003 | 4570      | 03/09/2004 | D   | CLV 04/12/2004 |
| 4107      | 03/05/2003 | B   | CLV 03/06/2003 |           |            |     |                |