



**Model: AT-3000-30V**

|  |                                       |
|--|---------------------------------------|
| Description:.....                                    | Voltage Controlled PIN Attenuator     |
| Operating Frequency:.....                            | 100 – 3000 MHz                        |
| Insertion Loss (0dB Attn. Ref.):.....                | 2.5 dB Max                            |
| Attenuation Range:.....                              | 0 - 30 dB Nominal                     |
| Attenuation Flatness:.....                           | 0 – 20 dB..... 0.3 dB Peak-Peak Max   |
| .....  | >20 – 30 dB..... 0.6 dB Peak-Peak Max |
| Control Function:.....                               | 0 – 3V, 10dB/V, (Impedance = 5~10K)   |
| Transfer Function Accuracy:.....                     | 0 – 30 dB..... ±0.5 dB Max            |
| VSWR (all settings):.....                            | 1.5:1 Max                             |
| Settling Time ("±1dB of Target Setting"):.....       | 5µs Max (15µs<PW<0.1S)                |
| Power Handling:.....                                 | Operating..... +14 dBm CW/Peak Max    |
| .....  | Survival..... +30 dBm CW/Avg Max      |
| Temperature Coefficient (Over Operating Range):..... | ±0.025 dB/°C                          |
| Power Supply (internally regulated):.....            | +12 to +15Vdc @ 130 mA                |
| .....  | -12 to -15Vdc @ 60 mA                 |
| Connectors (RF):.....                                | SMA (female), Removable               |
| Connector (Supply & Controls):.....                  | Solder Pins                           |
| Impedance:.....                                      | 50 Ohms Nominal                       |
| Quality:.....  | Best-Commercial-Grade                 |

**Environmental Ratings:**

|                   |  |
|-------------------|--|
| Temperature:..... | {Operating: -40°C to +85°C} & {Storage: -50°C to +100°C}           |
| Humidity:.....    | MIL-STD-202F, Method 103B, Cond. B (96 hours at 95% R.H.)          |
| Shock:.....       | MIL-STD-202F, Method 213B, Cond. B (75G, 6mSec)                    |
| Vibration:.....   | MIL-STD-202F, Method 204D, Cond. B (.06" double amplitude, or 15G) |
| Altitude:.....    | MIL-STD-202F, Method 105C, Cond. B (50,000 Feet)                   |
| Temp. Shock:..... | MIL-STD-202F, Method 107D, Cond. A (5 cycles)                      |

**Available Options:**

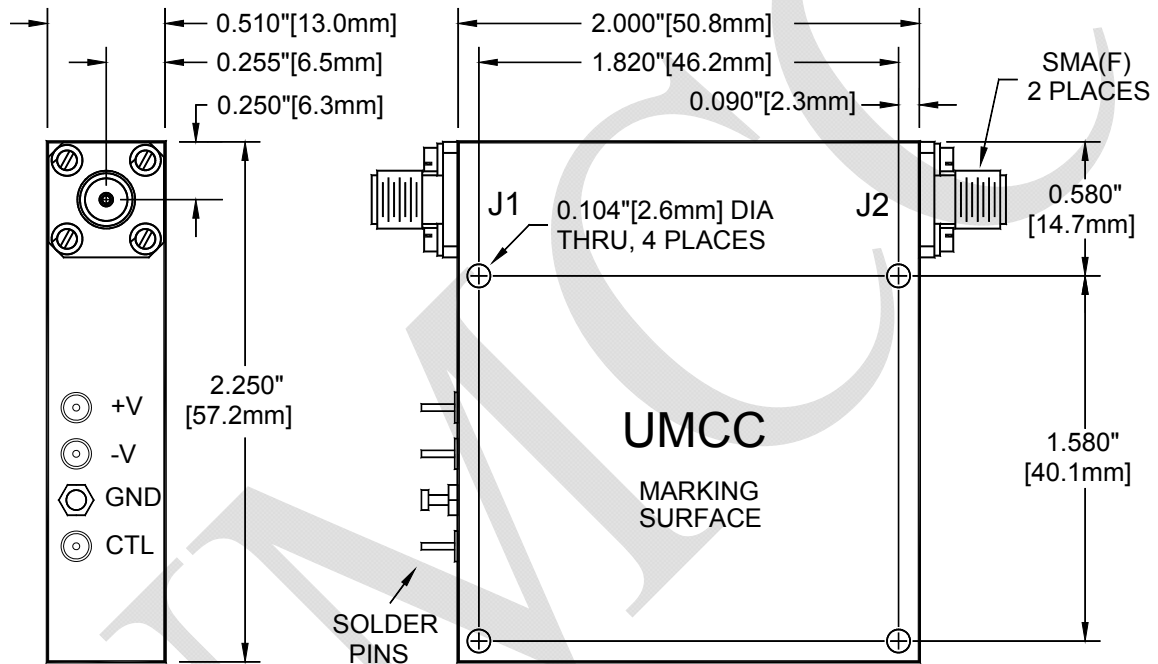
(Units with listed options here may be subject to some specification tradeoffs from the standard, consult factory)

- RF Connectors
  - B1 [ J1 SMA (male) ]
  - B2 [ All SMA (male) ]
- Control Connector
  - C1 [ SMC (Jack), 50 Ω ]
  - C2 [ SMB (Jack), 50 Ω ]
  - C3 [ SMA (female) ]
- Control Impedance
  - D1 [ 50 Ω, Internally Terminated ]
- Transfer Functions
  - F1 [ Slope = 5dB/V , 0 – 6V Control ]
  - F3 [ Reverse Control Voltage (0V = Max Attenuation) ]



Model: AT-3000-30V

### Outline



(Tolerances:  $\pm 0.015$ " [0.38mm] <> Weight = 2.7oz [77g])