



**PULSABLE IR SOURCE**  
**Model EP-3965\***



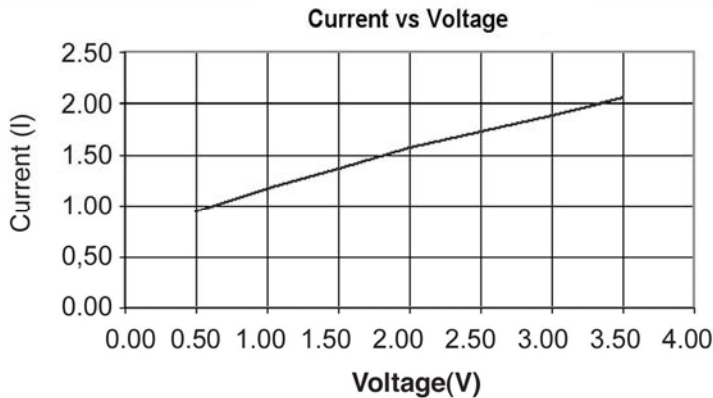
Helioworks, Inc. offers a unique Pulsable infrared emitter with a tungsten filament and sapphire window that provides mid IR radiation to over 5 microns. It can operate in pulsed or steady state mode at temperatures of up to 1900° K in an industry standard TO-8 package.

**Key features include:**

- Tungsten filament
- Pulsed or steady state mode
- Internal gold plated parabolic reflector
- Sapphire window
- Standard TO-8 package

**Electrical Specifications:**

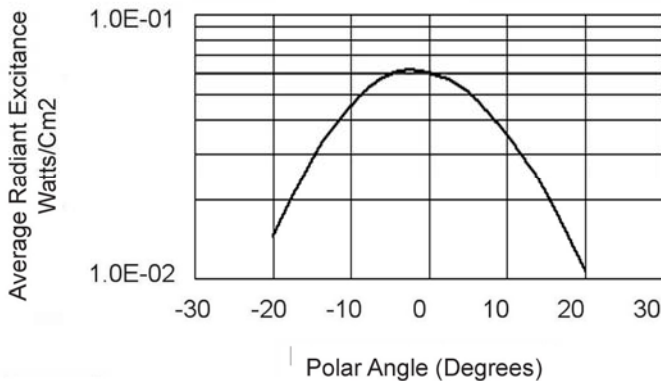
Peak Voltage = 3.5 Volts DC MAXIMUM  
 Peak Current = 2.0 Amp  
 Peak Power = 7.2 Watts



| V    | I    | W=V*I | R=V/I |
|------|------|-------|-------|
| 0.50 | 0.94 | 0.47  | 0.53  |
| 1.00 | 1.17 | 1.17  | 0.85  |
| 1.50 | 1.37 | 2.06  | 1.09  |
| 2.00 | 1.57 | 3.14  | 1.27  |
| 2.50 | 1.73 | 4.33  | 1.45  |
| 3.00 | 1.89 | 5.67  | 1.59  |
| 3.50 | 2.05 | 7.18  | 1.71  |

**Average Radiant Excitance (Watts/Cm2):**

Volts = 3.5, Distance = 3.0 inches from source



| Polar Angle | Average Radiant Excitance (Watts/Cm2) |
|-------------|---------------------------------------|
| -20         | 1.44E-02                              |
| -15         | 2.79E-02                              |
| -10         | 4.52E-02                              |
| -5          | 5.95E-02                              |
| 0           | 6.02E-02                              |
| 5           | 5.12E-02                              |
| 10          | 3.54E-02                              |
| 15          | 2.11E-02                              |
| 20          | 1.06E-02                              |

\*Patented