HELIOWORKS

*"Out Shines All Others"*

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



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

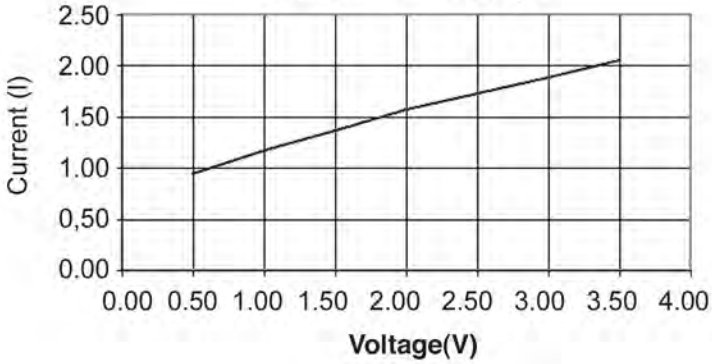
**Key features include:**

- Tungsten Filament
- Operates in 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 Amps
Peak Power = 7.2 Watts

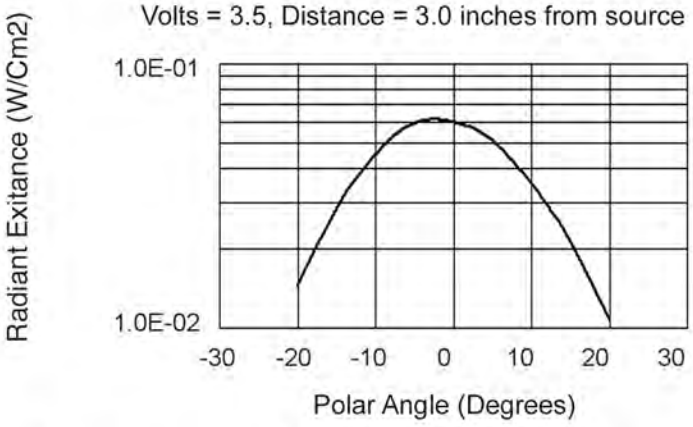
**Current vs Voltage**




| V | I | W=V1 | R=V/1 |
|---|---|---|---|
| 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 |

**Radiant Exitance**

Volts = 3.5, Distance = 3.0 inches from source




| Polar Angle | Average Intensity (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

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