



# HELIOWORKS

"Out Shines All Others"

## PULSABLE IR SOURCE Model EP-3964\*



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 in excess of 1900<sup>o</sup>K in an industry standard TO-8 package.

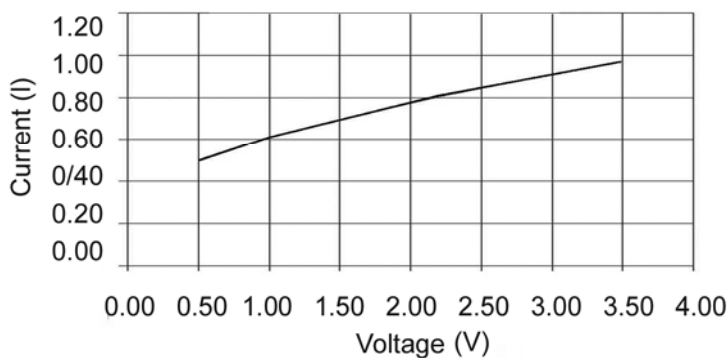
### Key features include:

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

### Electrical Specifications:

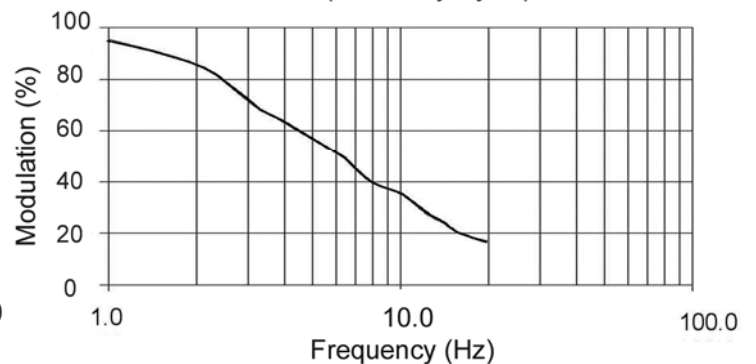
Peak Voltage = 3.5 Volts DC MAXIMUM  
Peak Current = 1.0 Amp  
Peak Power = 3.5 Watts

### Current vs Voltage



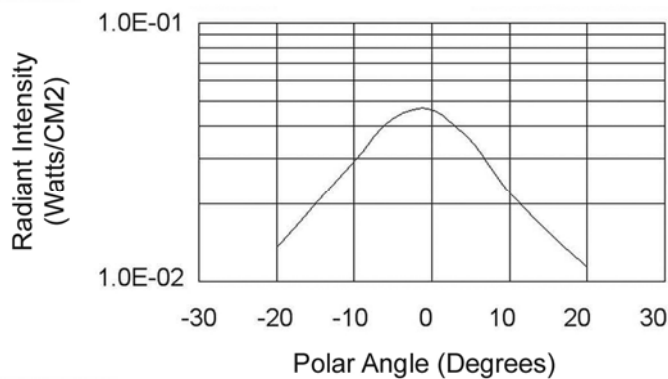
### Modulation vs. Frequency

(50% Duty Cycle)



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

Volts = 3.5, Distance = 3.0 inches from source



Polar Angle	Average (W/CM2)
-20	1.35E-02
-15	2.00E-02
-10	2.90E-02
-5	4.30E-02
0	4.65E-02
5	3.50E-02
10	2.20E-02
15	1.55E-02
20	1.15E-02

\*Patented