



# Electro Optical Components, Inc.

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## PULSABLE IR SOURCE Model EP-3872\*

Helioworks, Inc. offers a unique pulsable infrared emitter with a tungsten filament that provides mid IR radiation to over 5 microns. It operates 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
- Can Be Operated in Pulsed or Steady State Mode
- Internal Gold Plated Parabolic Reflector
- Sapphire Window
- Standard TO-8 Package



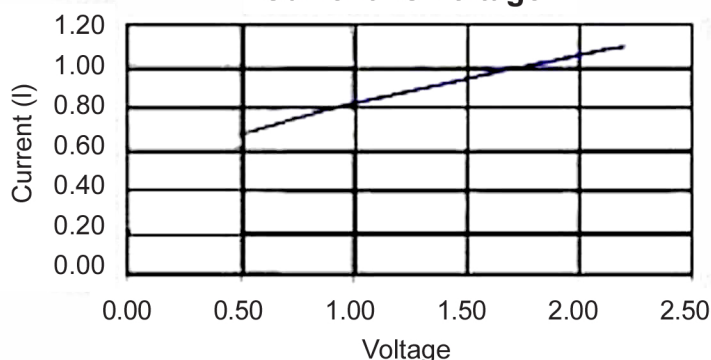
### Electrical Specifications:

Peak Voltage = 2.2 Volts DC MAXIMUM

Peak Current = 1.1 Amps

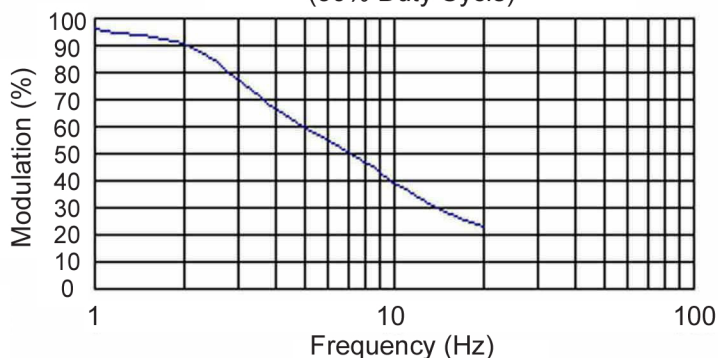
Peak Power = 2.4 Watts

### Current vs Voltage



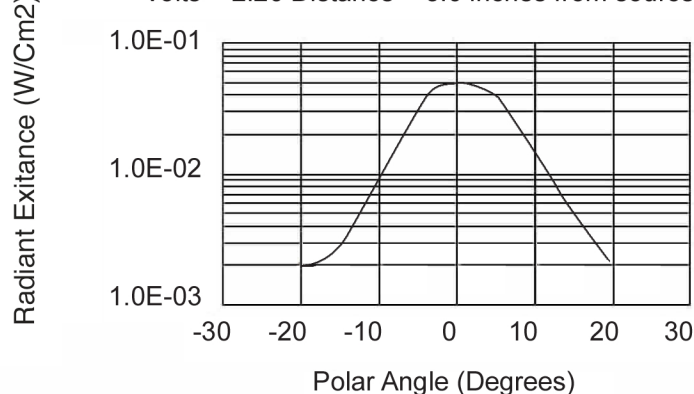
### Modulation vs. Frequency

(50% Duty Cycle)



### Radiant Exitance

Volts = 2.20 Distance = 3.0 inches from source



| Polar Angle | Average (W/CM2) |
|-------------|-----------------|
| -20         | 2.00E-03        |
| -15         | 280E-03         |
| -10         | 8.00E-03        |
| -5          | 3.10E-02        |
| 0           | 4.75E-02        |
| 5           | 3.90E-02        |
| 10          | 1.50E-02        |
| 15          | 4.50E-03        |
| 20          | 2.10E-03        |