



# Electro Optical Components, Inc.

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## PULSABLE IR SOURCE Model EF-8530

HelioWorks, Inc. offers a unique pulsable infrared emitter with three (3) radiating elements that can be addressed individually (4 lead package), or in total (2 lead package). It can operate in pulsed or steady state mode at a peak temperature of 700°C (973°K) in an industry standard TO-8 package with no window. Specify either 2 lead (EF-8532-2) or 4 lead (EF-8532-4) version. Photo shows 4 lead version.



### Key Features Include:

- Filament has uniform emitting area
- Emissivity is 0.88
- No window
- Operates in pulsed or steady state mode
- Industry standard TO-8 package
- Operates at peak temperature of 700°C (973°K)
- Large temperature change,  $\Delta T$ , during pulsing

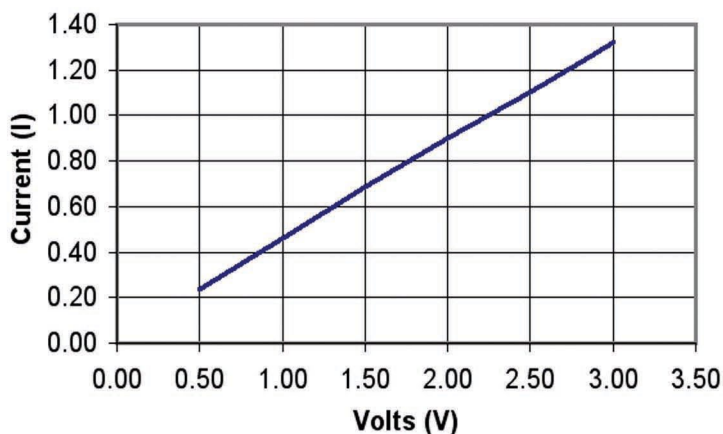
### Electrical Specifications (2 lead package):

Peak Voltage = 3.00 Volts DC MAXIMUM

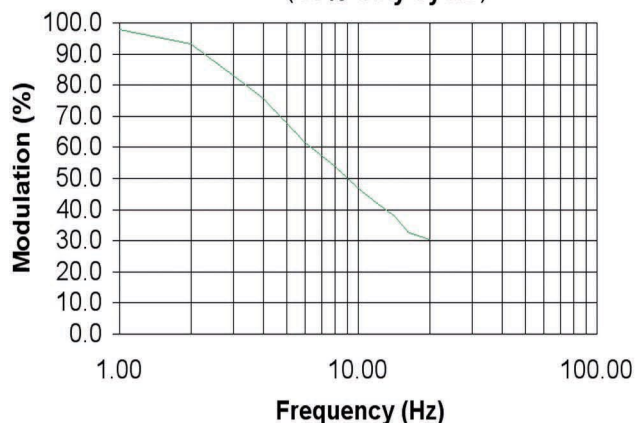
Peak Current = 1.34 Amps

Peak Power = 4.0 Watts

Current vs Voltage

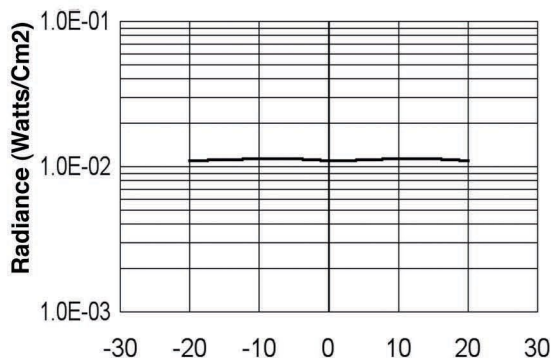


Modulation (%) Vs. Frequency (Hz)  
(50% duty cycle)

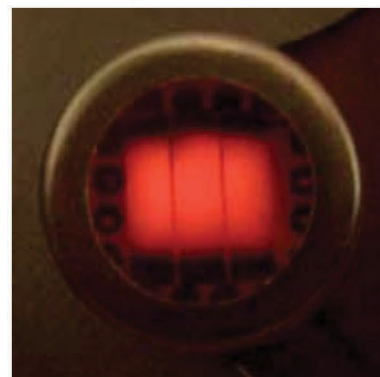


### Radiant Exitance

(V = 3.0, Distance = 2 inches from face)



Polar Angle	Average (Watts/Cm2)
-20	1.10E-02
-15	1.12E-02
-10	1.14E-02
-5	1.13E-02
0	1.10E-02
5	1.11E-02
10	1.13E-02
15	1.13E-02
20	1.10E-02



# PULSABLE IR SOURCE

## Model EF-8531

HelioWorks, Inc. offers a unique pulsable infrared emitter with three (3) radiating elements that can be addressed individually (4 lead package), or in total (2 lead package). It can operate in pulsed or steady state mode at a peak temperature of 700°C (973°K) in an industry standard TO-8 package with a Sapphire window. Specify either 2 lead (EF-8531-2) or 4 lead (EF-8531-4) version. Photo shows 4 lead package.



### Key features include:

- Filament has uniform emitting area
- Emissivity is 0.88
- Sapphire window
- Operates in pulsed or steady state mode
- Industry standard TO-8 package
- Operates at peak temperature of 700°C (973°K)
- Large temperature change  $\Delta T$ , during pulsing

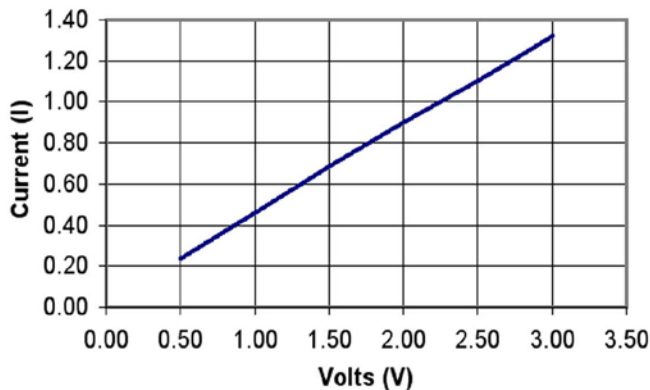
### Electrical Specifications (2 lead package):

Peak Voltage = 3.00 Volts DC MAXIMUM

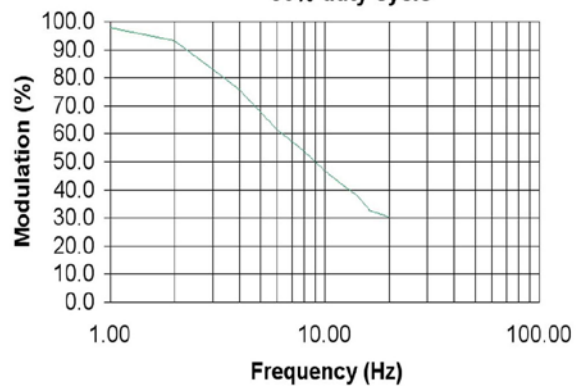
Peak Current = 1.34 Amps

Peak Power = 4.0 Watts

**Current vs Voltage**

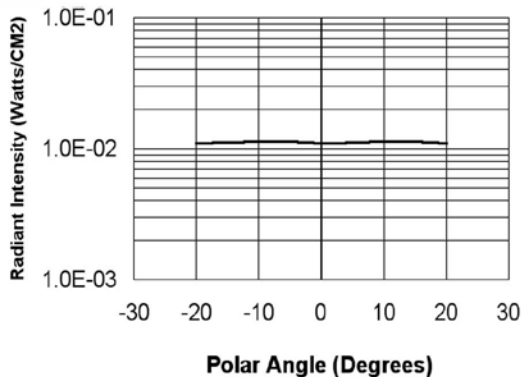


**Modulation (%) Vs. Frequency (Hz)  
50% duty cycle**



### **Radiance**

(V = 3.0, Distance = 2 inches from face)



Polar Angle	Average (Watts/Cm)
-20	1.10E-02
-15	1.12E-02
-10	1.14E-02
-5	1.13E-02
0	1.10E-02
5	1.11E-02
10	1.13E-02
15	1.13E-02
20	1.10E-02

