

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 or 4 lead package. Photo shows 4 lead package.



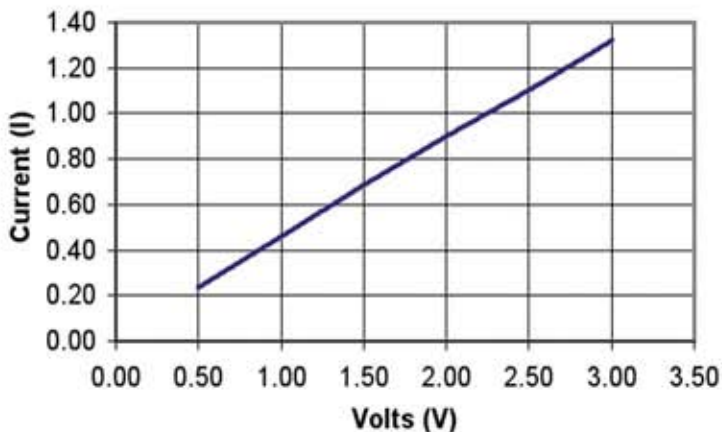
Key Features Include:

- 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, ΔT , during pulsing

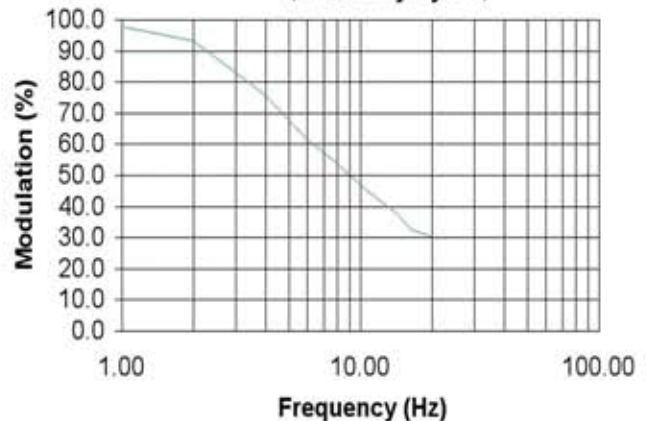
Electrical Specifications:(2 lead package):

Peak Voltage = 3.00 Volts DC MAXIMUM
Peak Current = 1.34 Amps
Peak Power = 4.0 Watts

Current vs Voltage

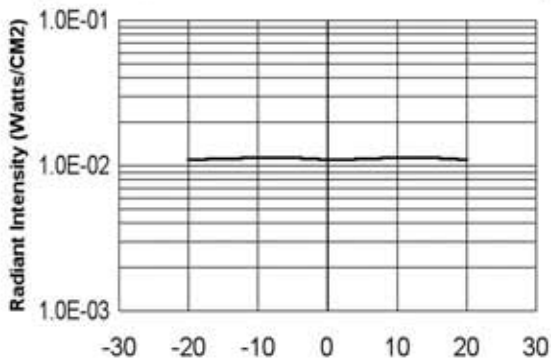


Modulation (%) Vs. Frequency (Hz)
(50% duty cycle)



Radiated Intensity

(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

Polar Angle (Degrees)

