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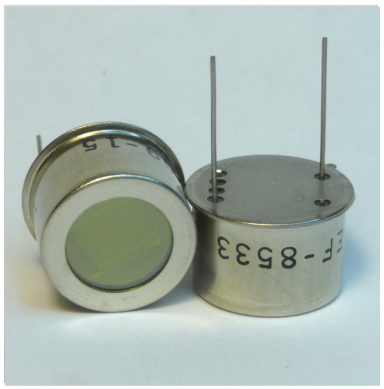
# PULSABLE **IR** SOURCE
# Model EF-8533



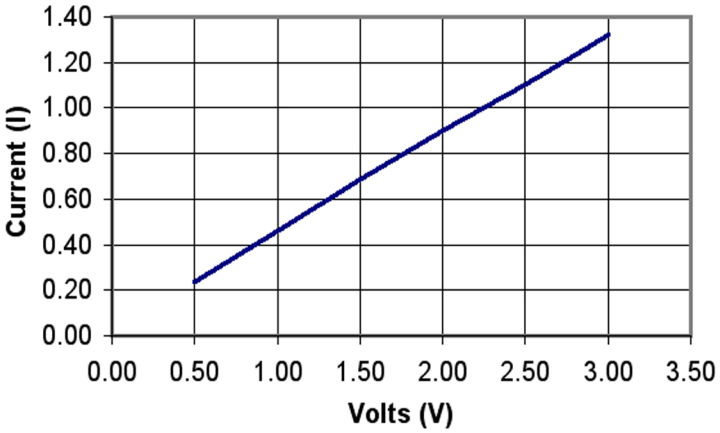
HelioWorks, Inc. offers a unique pulsable infrared emitter with three (3) radiating elements that can be addressed individually (4 lead package), or in total (2 lead package). It can operate in pulsed or steady state mode at a peak temperature of 700°C (973°K) in an industry standard TO-8 package with a Zinc Selenide (ZnSe) window. Specify either 2 lead (EF-8533-2) or 4 lead (EF-8533-4) versions. Photo shows 2 lead version.

**Key Features Include:**

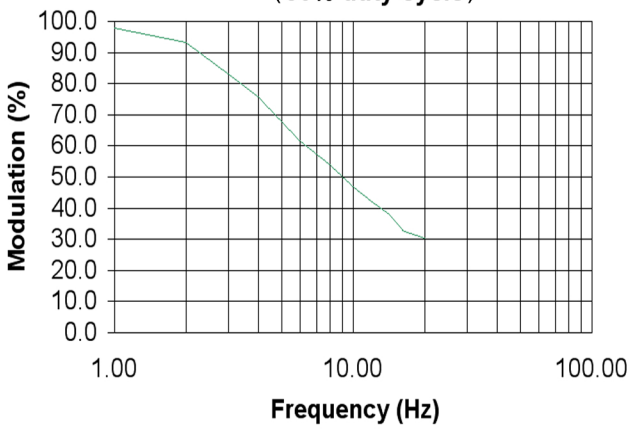
- Filament has uniform emitting area
- Emissivity is 0.88
- Zinc Selenide (ZnSe) window
- Operates in pulsed or steady state mode
- Industry standard TO-8 package
- Operates at peak temperature of 700°C (973°K)
- Large temperature change, ΔT, during pulsing

**Electrical Specifications (2 lead package):**
Peak Voltage = 3.00 Volts DC MAXIMUM
Peak Current = 1.34 Amps
Peak Power = 4.0 Watts

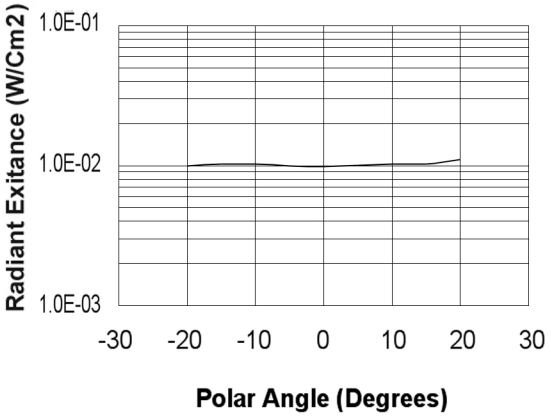
**Current vs Voltage**



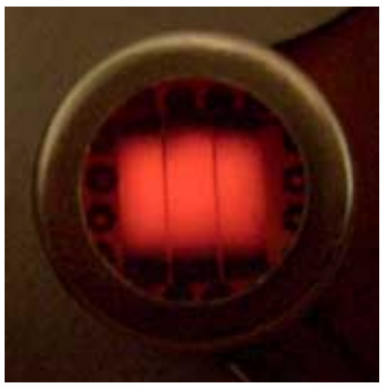

**Modulation (%) Vs. Frequency (Hz)**
**(50% duty cycle)**




**Radiant Exitance**
(V = 3.0, Distance = 2 inches from face)




| Polar Angle | Average (Watts/Cm2) |
|---|---|
| -20 | 1.00E-02 |
| -15 | 1.03E-02 |
| -10 | 1.03E-02 |
| -5 | 1.00E-02 |
| 0 | 9.80E-03 |
| 5 | 1.01E-02 |
| 10 | 1.03E-02 |
| 15 | 1.03E-02 |
| 20 | 1.10E-02 |



*Patented