



Electro Optical Components, Inc.

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STEADY STATE IR SOURCE Model EK-8522

Helioworks offers a unique steady state infrared emitter for the mid IR spectrum that operates at up to 950° Centigrade in an industry standard TO-8 package. A Calcium Fluoride (CaF₂) window provides spectral transmission to over 9 microns.

Key Features Include:

- Kanthal Filament with Emissivity of 0.7
- Calcium Fluoride (CaF₂) Window
- Internal Gold Plated Parabolic Reflector
- Industry Standard TO-8 Package
- Inert Gas Backfill



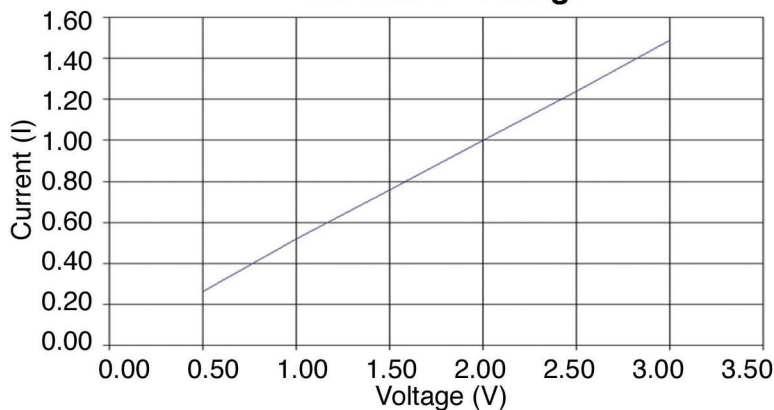
Electrical Specification:

Peak voltage = 3.0 Volts MAXIMUM

Peak Current = 1.48 Amps

Peak Power = 4.4 Watts

Current vs Voltage

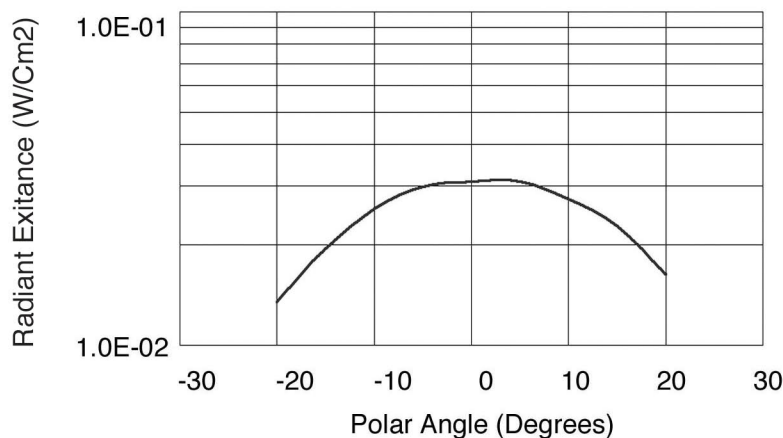


| V | I | W=VI | R=V/I |
|------|------|------|-------|
| 0.50 | 0.26 | 0.13 | 1.90 |
| 1.00 | 0.52 | 0.52 | 1.92 |
| 1.50 | 0.75 | 1.13 | 2.00 |
| 2.00 | 0.99 | 1.99 | 2.01 |
| 2.50 | 1.23 | 3.08 | 2.03 |
| 2.80 | 1.38 | 3.87 | 2.03 |
| 3.00 | 1.48 | 4.43 | 2.03 |

Approximate 950° C

Radiant Exitance

Volts = 3.0, Distance - 3.0 inches from source



| Polar Angle | Average Intensity (Watts/Cm ²) |
|-------------|---|
| -20 | 1.35E-02 |
| -15 | 1.95E-02 |
| -10 | 2.58E-02 |
| -5 | 2.98E-02 |
| 0 | 3.10E-02 |
| 5 | 3.09E-02 |
| 10 | 2.75E-02 |
| 15 | 2.28E-02 |
| 20 | 1.63E-02 |