



"Out Shines All Others"

STEADY STATE IR SOURCE

Model EK-8523

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. Includes a Zinc Selenide (ZnSe) window with spectral transmission to over 14 microns.



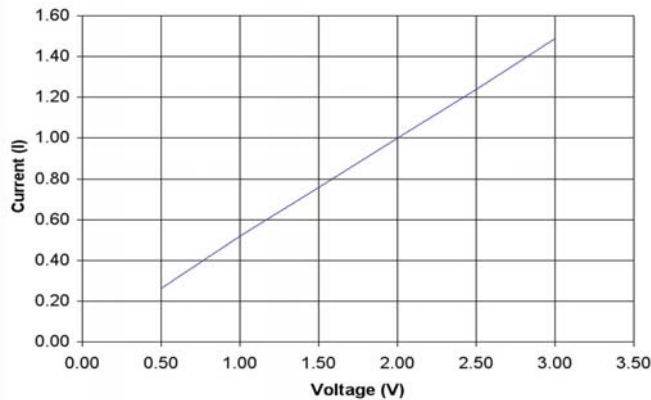
Key features include:

- Kanthal Filament with Emissivity of 0.7
- Zinc Selenide Window
- Internal Gold Plated Parabolic Reflector
- Standard TO-8 Package
- Inert Gas Backfill

Electrical Specifications:

Peak Voltage = 3.0 Volts DC MAXIMUM
 Peak Current = 1.48 Amps
 Peak Power = 4.4 Watts

Current vs. Voltage

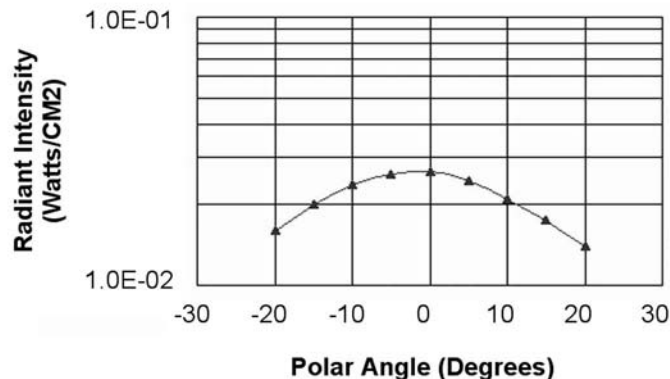


| V | I | W=VI | R=V/I |
|------|------|------|-------|
| 0.50 | 0.26 | 0.13 | 1.90 |
| 1.00 | 0.52 | 0.52 | 1.92 |
| 1.50 | 0.76 | 1.14 | 1.97 |
| 2.00 | 1.00 | 2.00 | 2.00 |
| 2.50 | 1.24 | 3.10 | 2.02 |
| 2.80 | 1.39 | 3.89 | 2.01 |
| 3.00 | 1.49 | 4.47 | 2.01 |

Approximate 950° C

Radiant Intensity (Watts/CM2):

Volts = 3.0, Distance = 3.0 inches from source



| Polar Angle | Average (Watts/CM2) |
|-------------|---------------------|
| -20 | 1.60E-02 |
| -15 | 2.00E-02 |
| -10 | 2.37E-02 |
| -5 | 2.60E-02 |
| 0 | 2.65E-02 |
| 5 | 2.45E-02 |
| 10 | 2.10E-02 |
| 15 | 1.75E-02 |
| 20 | 1.40E-02 |