HELIOWORKS

"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. A Zinc Selenide (ZnSe) window provides spectral transmission to over 14 microns.

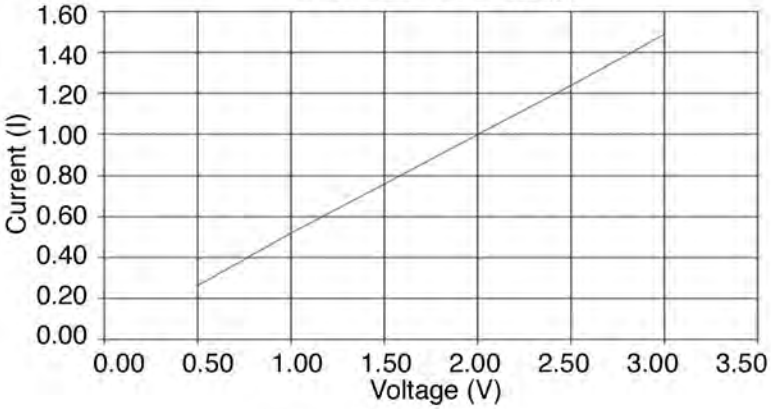
Key Features Include:

- Kanthal Filament with Emissivity of 0.7
- Zinc Selenide (ZnSe) Window
- Internal Gold Plated Parabolic Reflector
- Industry Standard TO-8 Package

Electrical Specifications:

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

Current vs Voltage

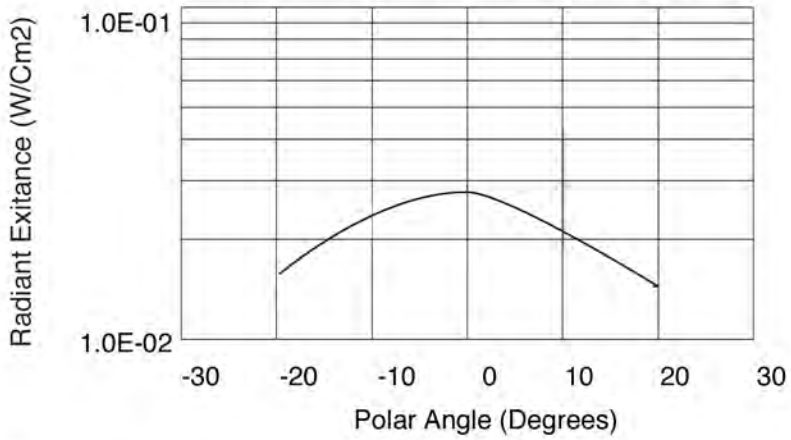


V	I	W=VI	R=V/I
0.50	0.26	0.13	1.90
1.00	0.52	0.52	1.92
1.50	0.75	1.13	2.00
2.00	0.99	1.99	2.01
2.50	1.23	3.08	2.03
2.80	1.38	3.87	2.03
3.00	1.48	4.43	2.03

Approximate 950° C

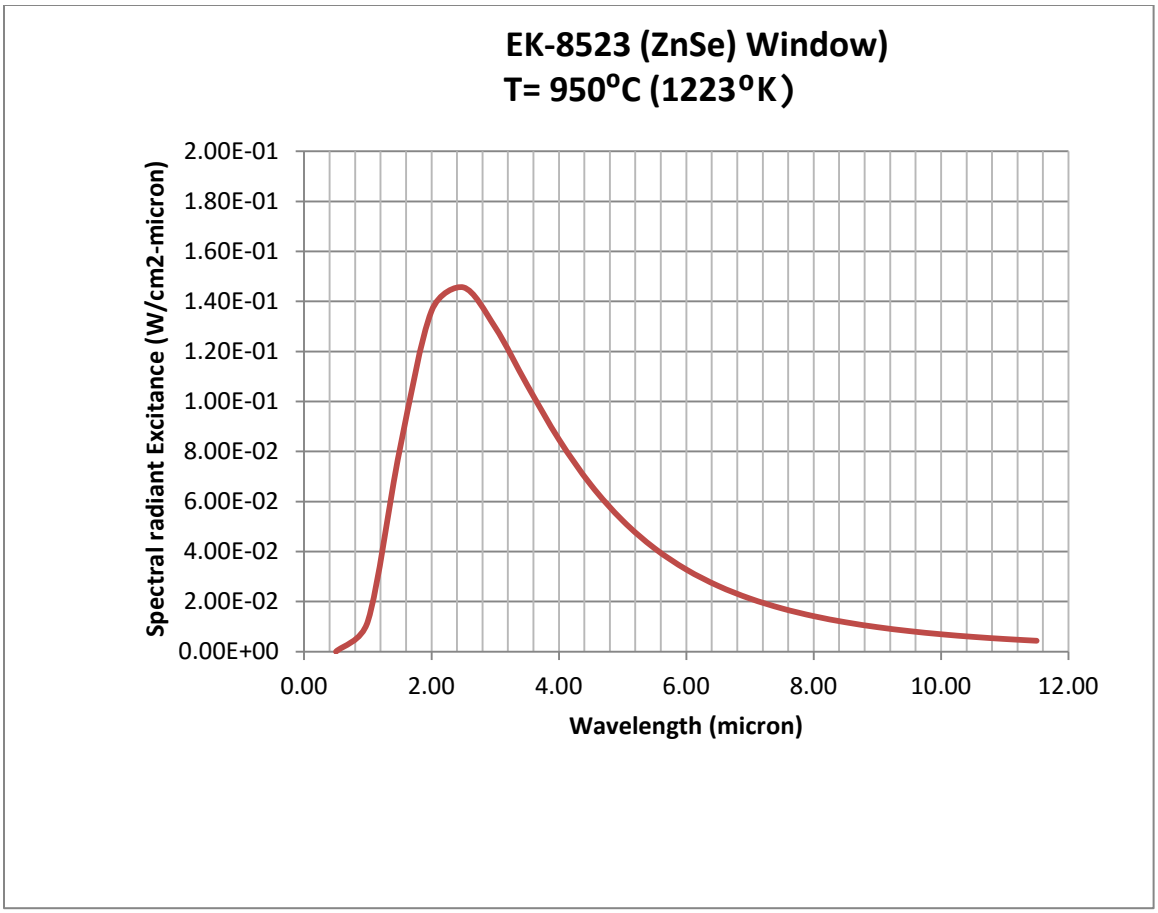
Radiant Exitance

Volts = 3.0, Distance - 3.0 inches from source



Polar Angle	Average Intensity (Watts/Cm2)
-20	1.60E-02
-15	200E-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

1275 4th Street Santa Rosa, CA 95404 • TEL: (707) 578-7200 • FAX: (707) 576-7200
info@helioworks.com http://www.helioworks.com


EK-8523 (ZnSe) Window)
T= 950°C (1223°K)
Spectral radiant Excitance (W/cm2-micron)
2.00E-01
1.80E-01
1.60E-01
1.40E-01
1.20E-01
1.00E-01
8.00E-02
6.00E-02
4.00E-02
2.00E-02
0.00E+00
0.00
2.00
4.00
6.00
8.00
10.00
12.00
Wavelength (micron)