HELIOWORKS

"Out Shines All Others"

STEADY STATE **IR** SOURCE

Model EK-8520

Helioworks, Inc. offers a unique steady state black body infrared emitter in an industry standard TO-8 package that operates at up to 950° Centigrade. It has no window and therefore emits the full unattenuated blackbody spectrum.



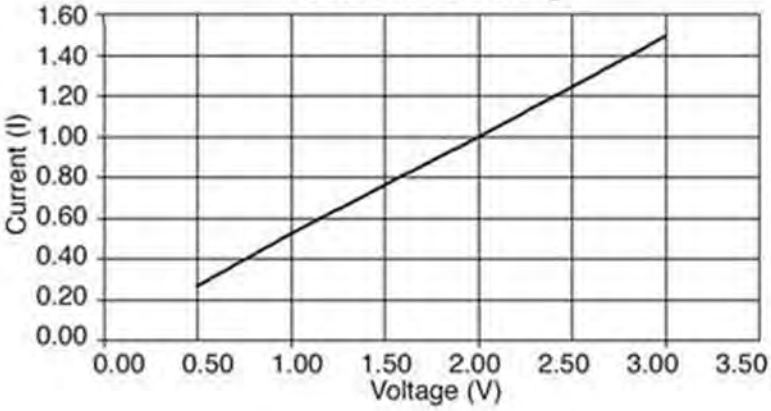
Key Features Include:

- Kanthal Filament with Emissivity of 0.7
- No Window
- Internal Gold Plated Parabolic Reflector
- Industry Standard TO-8 Package

Electrical Specifications:

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

Current vs Voltage

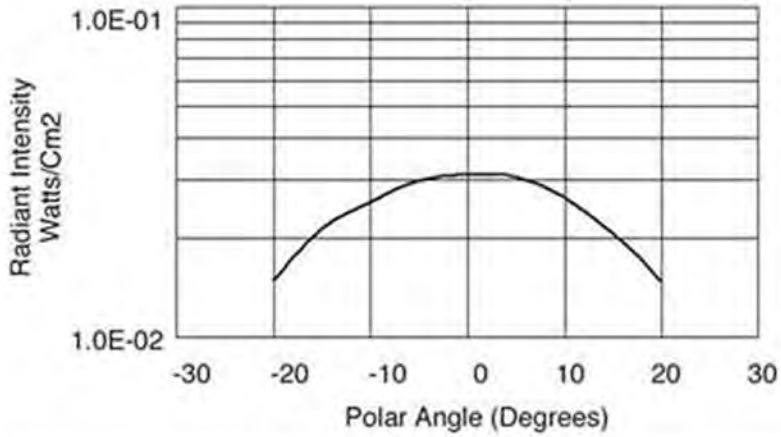


V	I	W=VI (Watts)	R=V/I (ohms)
0.50	0.26	0.13	1.90
1.00	0.52	0.52	1.92
1.50	0.76	1.14	1.97
2.00	1.00	2.00	2.00
2.50	1.24	3.10	2.02
2.80	1.39	3.89	2.01
3.00	1.49	4.47	2.01

Approximate 950° C

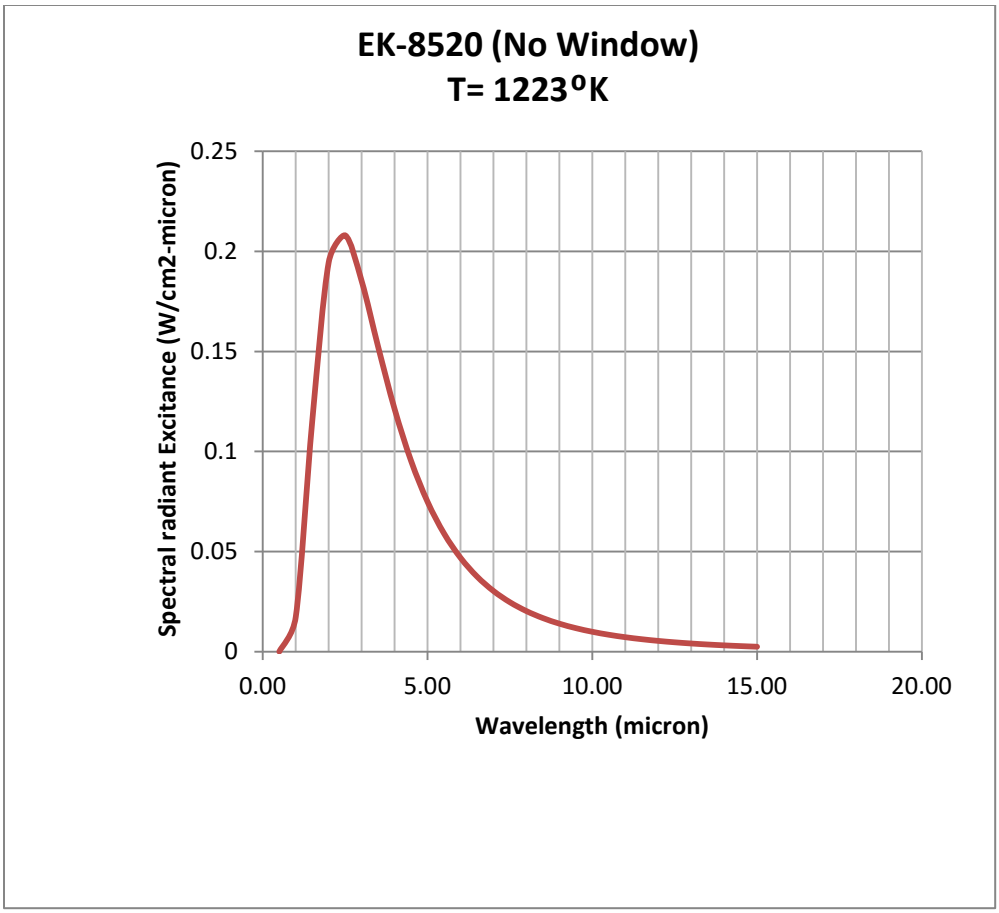
Radiant Exitance

Volts = 3.0, Distance = 3.0 inches from source



Polar Angle	Average Intensity (Watts/Cm2)
-20	1.49E-02
-15	2.13E-02
-10	2.55E-02
-5	2.97E-02
0	3.10E-02
5	3.04E-02
10	2.66E-02
15	2.08E-02
20	1.48E-02

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


EK-8520 (No Window)
T= 1223°K
Spectral radiant Excitance (W/cm2-micron)
0.25
0.2
0.15
0.1
0.05
0
0.00
5.00
10.00
15.00
20.00
Wavelength (micron)