

## 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°C (1223°K). It has no window and therefore emits the full un-attenuated blackbody spectrum.

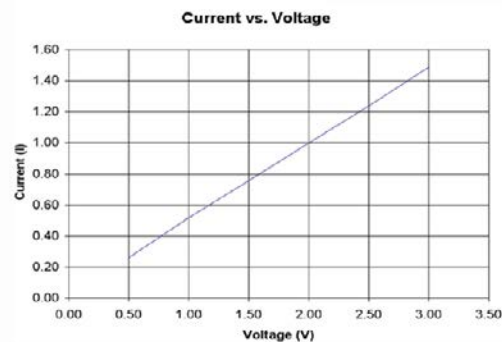


### Key features include:

- Kanthal filament with emissivity,  $\epsilon = 0.7$
- No window
- Internal gold plated parabolic reflector
- Standard TO-8 package

### Electrical Specifications:

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

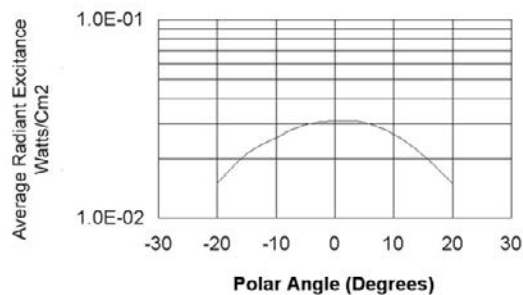


V	I	W=VI	R=V/I
0.50	0.26	0.13	1.90
1.00	0.52	0.52	1.92
1.50	0.76	1.14	1.97
2.00	1.00	2.00	2.00
2.50	1.24	3.10	2.02
2.80	1.39	3.89	2.01
3.00	1.49	4.47	2.01

Approximate 950° C

### **Radiance**

Volts = 3.0, Distance = 3.0 inches from source



Polar Angle	Average Radiant Excitance (Watts/Cm2)
-20	2.00E-02
-15	2.45E-02
-10	2.75E-02
-5	2.98E-02
0	3.10E-02
5	3.10E-02
10	2.98E-02
15	2.70E-02
20	2.25E-02