



STEADY STATE IR SOURCE Model EK-8521

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. A Sapphire window provides spectral transmission to over 5 microns.

Key Features include:

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



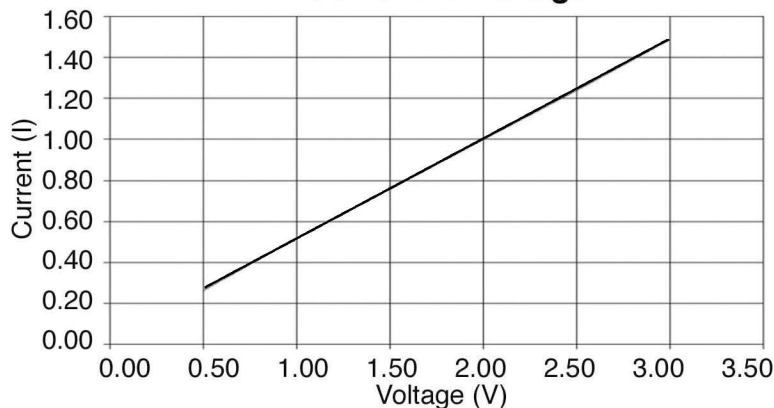
Electrical Specifications:

Peak Voltage = 3.0 Volts DC MAXIMUM

Peak Current = 1.48 Amps

Peak Power = 4.4 Watts

Current vs Voltage

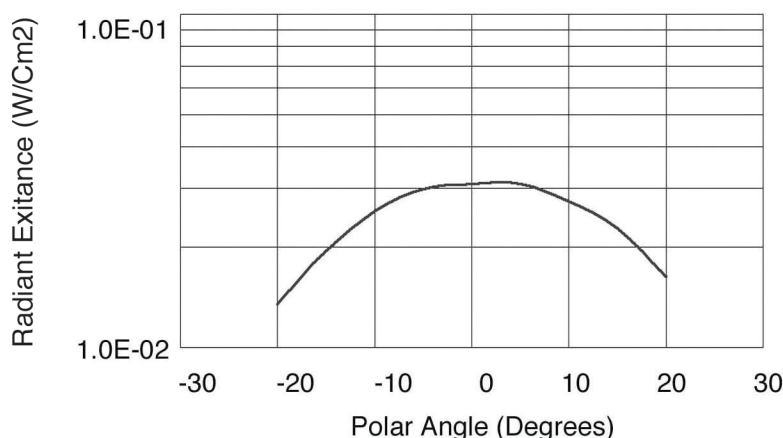


V	I	W=VI (Watts)	R=V/I (ohms)
0.50	0.26	0.13	1.90
1.00	0.52	0.52	1.92
1.50	0.75	1.13	2.00
2.00	0.99	1.99	2.01
2.50	1.23	3.08	2.03
2.80	1.38	3.87	2.03
3.00	1.48	4.43	2.03

Approximate 950° C

Radiant Exitance

Volts = 3.0, Distance = 3.0 inches from source



Polar Angle	Average Intensity (Watts/Cm2)
-20	1.35E-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