



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 un-attenuated blackbody spectrum.

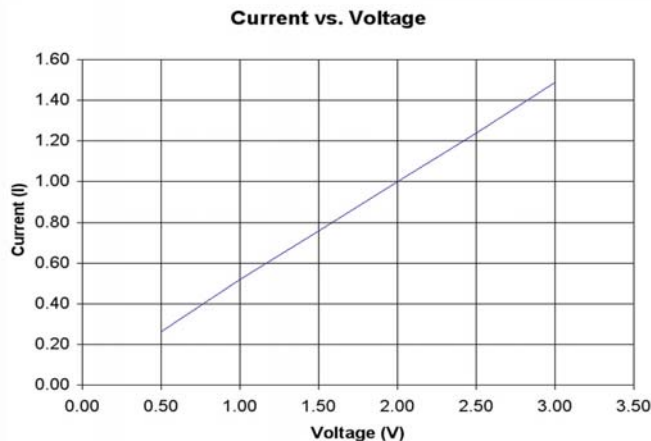
Key features include:

- 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

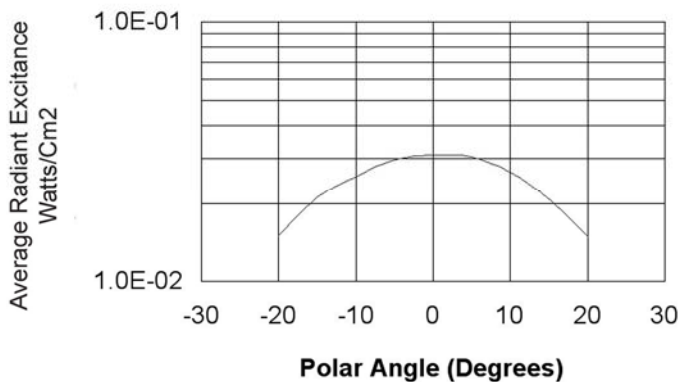


| V | I | W=VI | R=V/I |
|------|------|------|-------|
| 0.50 | 0.26 | 0.13 | 1.90 |
| 1.00 | 0.52 | 0.52 | 1.92 |
| 1.50 | 0.76 | 1.14 | 1.97 |
| 2.00 | 1.00 | 2.00 | 2.00 |
| 2.50 | 1.24 | 3.10 | 2.02 |
| 2.80 | 1.39 | 3.89 | 2.01 |
| 3.00 | 1.49 | 4.47 | 2.01 |

Approximate 950° C

Average Radiant Excitance (Watts/Cm2):

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 |

Boston Electronics Corporation • 91 Boylston Street, Brookline MA 02445 USA

Tel: (800) 347-5445 or (617) 566-3821 • Fax: (617) 731-0935

www.bolelec.com • info@boselec.com