



"Out Shines All Others"

STEADY STATE IR SOURCE
Model EK-8621

HelioWorks, Inc. offers a unique steady state black body infrared emitter in an industry standard TO-8 package. It has a sapphire window and emits radiation to somewhat over 5 micrometers. Input power is approximately 8 Watts at 1050° C (1323° K).

Key features include:

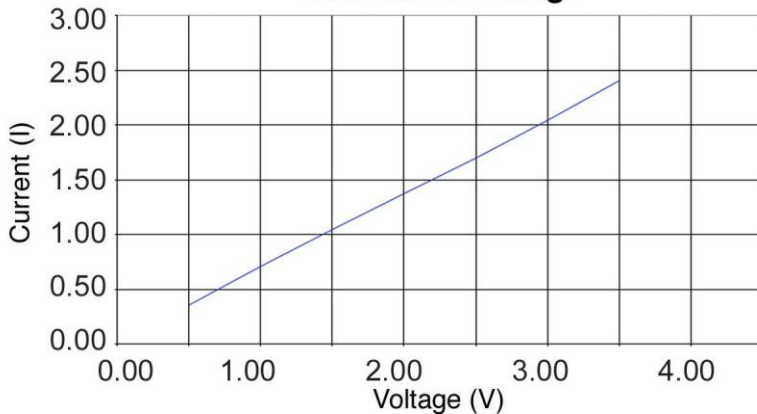
- Kanthal Filament with Emissivity = 0.7
- Up to 8 Watts input power at 1050° C (1323° K)
- Internal Gold Plated Parabolic Reflector
- Industry Standard TO-8 Package
- Sapphire Window



Electrical Specifications:

Peak Voltage = 3.5 Volts MAXIMUM
Peak Current = 2.40 Amps
Peak Power = 8.40 Watts

Current vs Voltage

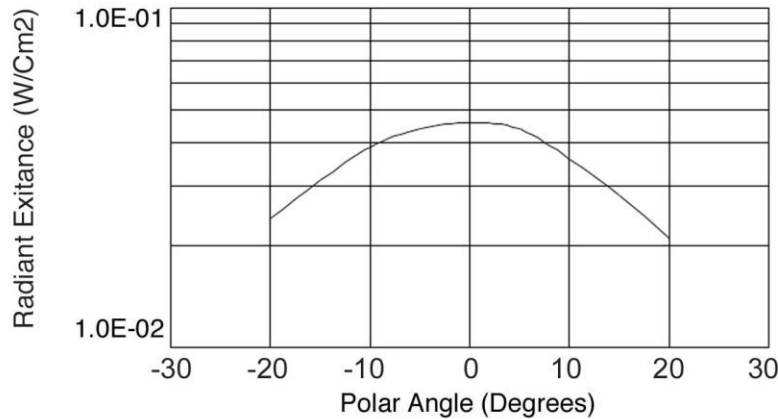


V	I	W=VI	R=V/I
0.50	0.35	0.18	1.42
1.00	0.70	0.70	1.42
1.50	1.04	1.56	1.44
2.00	1.37	2.74	1.46
2.50	1.70	4.25	1.47
3.00	2.04	6.12	1.47
3.50	2.40	8.40	1.46

Approximate 1050° C (1323° K)

Radiant Exitance (Watts/Cm2)

Volts = 3.5, Distance = 3.0 inches from source



Polar Angle	Average Intensity (Watts/Cm2)
-20	2.40E-02
-15	3.10E-02
-10	3.90E-02
-5	4.40E-02
0	4.60E-02
5	4.40E-02
10	3.60E-02
15	2.80E-02
20	2.10E-02