



"Out Shines All Others"

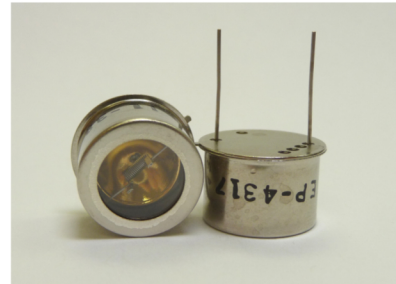
**PULSABLE IR SOURCE**  
**Model EP-4317\***

**NEW  
PRODUCT!**

Helioworks, Inc. offers a unique Pulsable infrared emitter with a tungsten filament that provides mid IR radiation to over 5 microns. It can operate in pulsed or steady state mode at temperatures in excess of 2000°K in an industry standard TO-8 package.

**Key features include:**

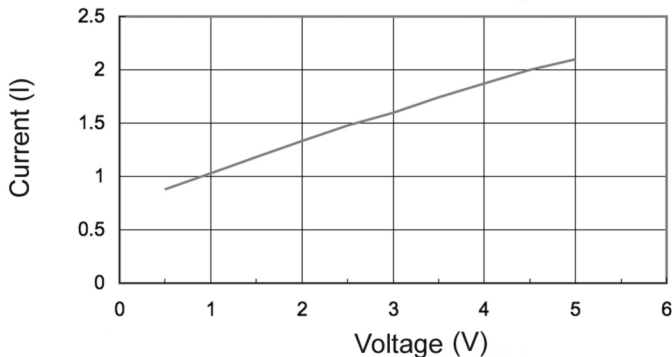
- Tungsten filament
- Can be operated in pulsed or steady state mode
- Internal gold plated parabolic reflector
- Sapphire window
- Standard TO-8 package



**Electrical Specifications:**

Peak Voltage = 5.0 Volts DC MAXIMUM  
Peak Current = 2.1 Amps  
Peak Power = 10.5 Watts

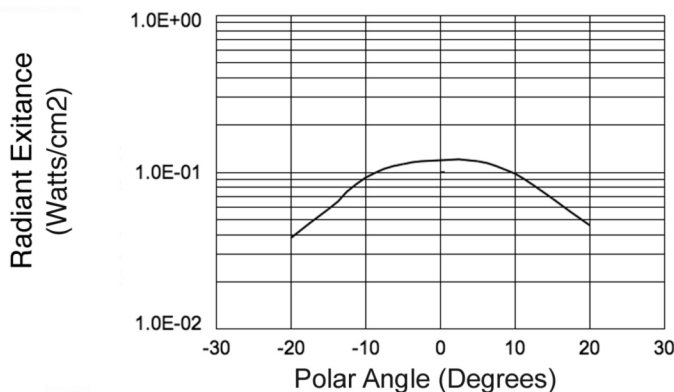
**Current vs Voltage**



Volts	I(Amps)	V/I (Ohms)	V*I (W)
0.5	0.88	0.57	0.44
1.0	1.03	0.97	1.03
1.5	1.18	1.27	1.77
2.0	1.33	1.50	2.66
2.5	1.48	1.69	3.70
3.0	1.60	1.88	4.80
3.5	1.74	2.01	6.09
4.0	1.87	2.14	7.48
4.5	2.00	2.25	9.00
5.0	2.10	2.38	10.50

**Radiant Exitance (Watts/cm2):**

Volts = 5.0, Distance = 3.0 inches from source



Polar Angle	Average (W/cm2)
-20	3.82E-02
-15	5.77E-02
-10	9.23E-02
-5	1.13E-01
0	1.19E-01
5	1.17E-01
10	9.76E-02
15	6.75E-02
20	4.57E-02

\*Patented