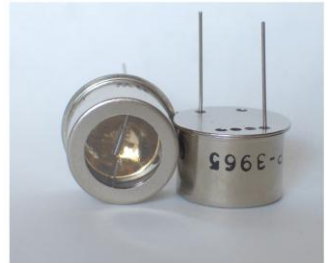


HELIOWORKS

"Out Shines All Others"

PULSABLE IR SOURCE Model EP-3965*



Helioworks, Inc. offers a unique Pulsable infrared emitter with a tungsten filament and sapphire window that provides mid IR radiation to over 5 microns. It can operate in pulsed or steady state mode at temperatures of up to 1900° K in an industry standard TO-8 package.

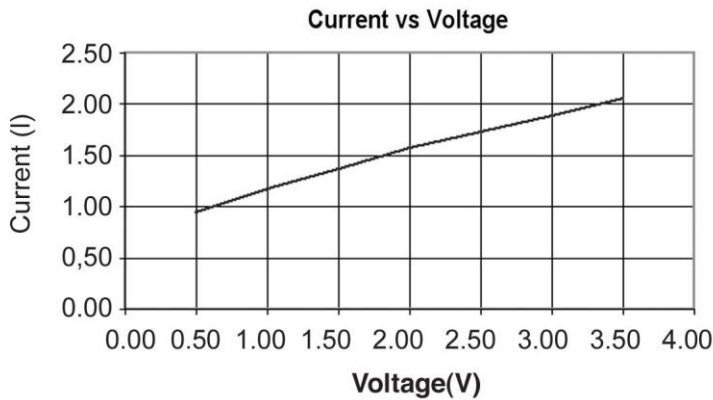
Key features include:

- Tungsten filament
- Pulsed or steady state mode
- Internal gold plated parabolic reflector
- Sapphire window
- Standard TO-8 package

Electrical Specifications:

Peak Voltage = 3.5 Volts DC MAXIMUM
 Peak Current = 2.0 Amp
 Peak Power = 7.2 Watts

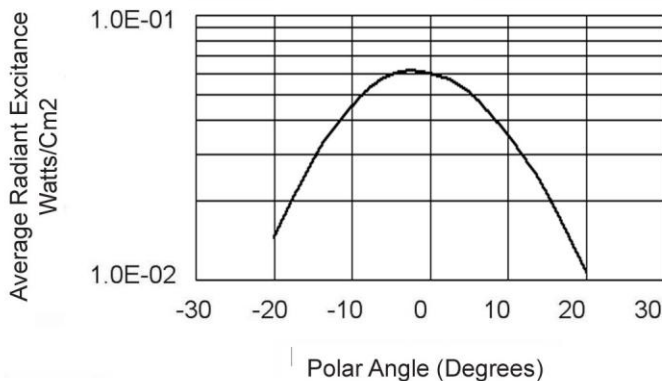
*Patented



V	I	W=V ² /R	R=V/I
0.50	0.94	0.47	0.53
1.00	1.17	1.17	0.85
1.50	1.37	2.06	1.09
2.00	1.57	3.14	1.27
2.50	1.73	4.33	1.45
3.00	1.89	5.67	1.59
3.50	2.05	7.18	1.71

Radiance (Watts/Cm²)

Volts = 3.5, Distance = 3.0 inches from source



Polar Angle	Average Radiant Excitance (Watts/Cm ²)
-20	1.44E-02
-15	2.79E-02
-10	4.52E-02
-5	5.95E-02
0	6.02E-02
5	5.12E-02
10	3.54E-02
15	2.11E-02
20	1.06E-02