HELIOWORKS

"Out Shines All Others"

STEADY STATE **IR** SOURCE

Model EK-8522



Helioworks offers a unique steady state infrared emitter for the mid IR spectrum that operates at up to 950° Centigrade in an industry standard TO-8 package. A Calcium Fluoride (CaF2) window provides spectral transmission to over 9 microns.

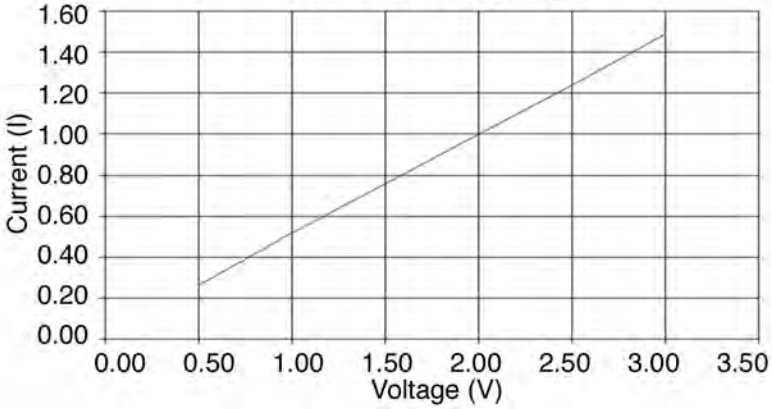
Key Features Include:

- Kanthal Filament with Emissivity of 0.7
- Calcium Fluoride (CaF2) Window
- Internal Gold Plated Parabolic Reflector
- Industry Standard TO-8 Package
- Inert Gas Backfill

Electrical Specification:

Peak voltage = 3.0 Volts MAXIMUM
Peak Current = 1.48 Amps
Peak Power = 4.4 Watts

Current vs Voltage

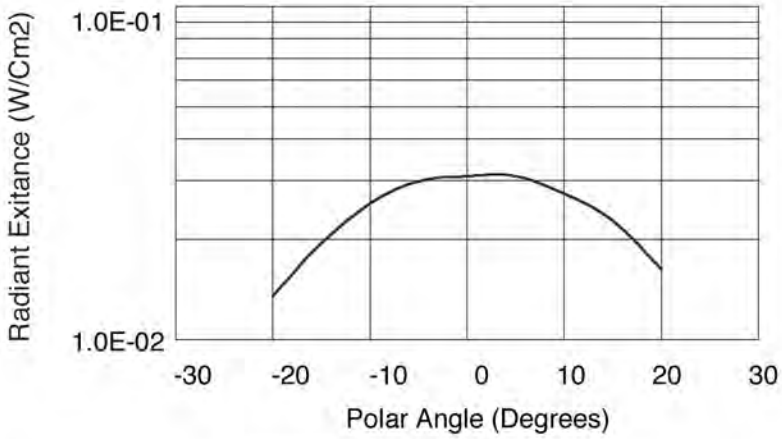


V	I	W=V I	R=V/I
0.50	0.26	0.13	1.90
1.00	0.52	0.52	1.92
1.50	0.75	1.13	2.00
2.00	0.99	1.99	2.01
2.50	1.23	3.08	2.03
2.80	1.38	3.87	2.03
3.00	1.48	4.43	2.03

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

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