



"Out Shines All Others"

## STEADY STATE IR SOURCE Model EK-537X

HelioWorks, Inc. offers a unique steady state black body infrared emitter in an industry standard TO-5 package with approximately 2.4 Watts input power at up to 900°C (1173°K). Window options (X) include: 0 = no window, 1 = sapphire, 2 = Calcium Fluoride (CaF<sub>2</sub>)

### Key features include:

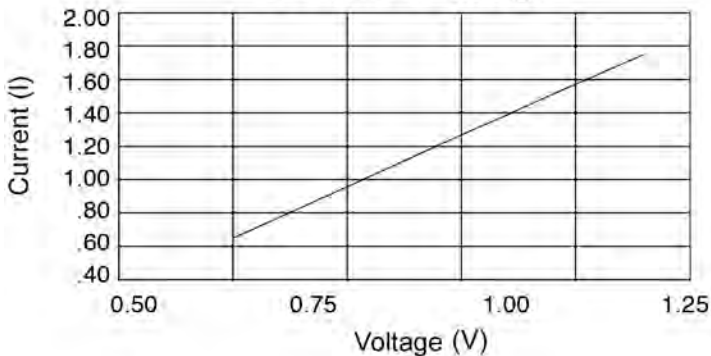
- Kanthal Filament with Emissivity = 0.7
- Approximately 2.4 Watts input at 900°C (1173°K)
- Internal Gold Plated Parabolic Reflector
- Industry Standard TO-5 Package
- Window Options (X) include:
  - 0 = No Window
  - 1 = Sapphire
  - 2 = Calcium Fluoride (CaF<sub>2</sub>)



### Electrical Specifications:

Peak Voltage = 1.4 Volts MAXIMUM  
Peak Current = 1.75 Amps  
Peak Power = 2.45 Watts

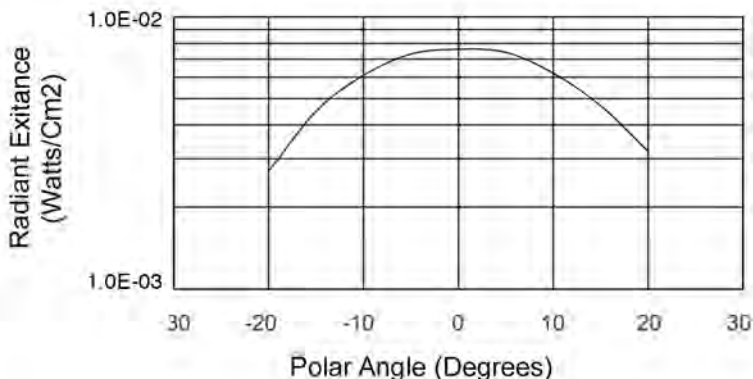
**Current vs Voltage**



Volts	I(Amps)	V*I (W)	V/I (Ohms)
0.50	0.65	0.32	0.77
0.80	1.02	0.82	0.78
1.00	1.27	1.27	0.79
1.10	1.39	1.53	0.79
1.20	1.51	1.81	0.79
1.30	1.63	2.12	0.80
1.40	1.75	2.45	0.80

### Radiant Exitance (Watts/Cm<sup>2</sup>):

Volts = 1.40, Distance = 3.0 inches from source



Polar Angle	Average (W/Cm <sup>2</sup> )
-20	2.70E-03
-15	4.50E-03
-10	6.10E-03
-5	7.30E-03
0	7.60E-03
5	7.40E-03
10	6.20E-03
15	4.70E-03
20	3.20E-03