



"Out Shines All Others"

STEADY STATE IR SOURCE Model EK-527X

HelioWorks, Inc. offers a unique steady state black body infrared emitter in an industry standard TO-5 package with approximately 1.3 Watts input power at up to 900°C (1173°K). Window options (X) include: 0 = no window, 1 = sapphire, 2 = Calcium Fluoride (CaF₂)

Key features include:

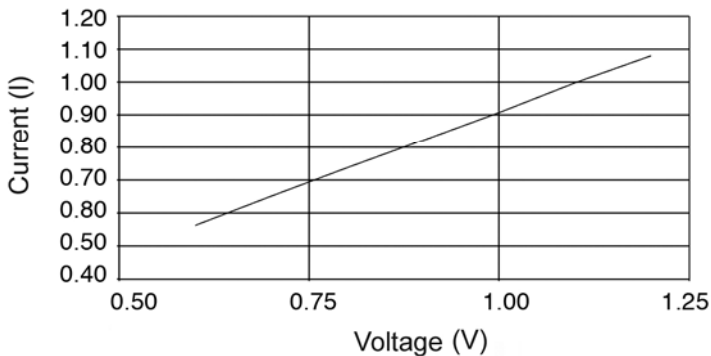
- Kanthal Filament with Emissivity = 0.7
- Approximately 1.30 Watts input at 900°C (1173°K)
- Internal Gold Plated Parabolic Reflector
- Industry Standard TO-5 Package
- Window Options (X) include:
 - 0 = No Window
 - 1 = Sapphire
 - 2 = Calcium Fluoride (CaF₂)



Electrical Specifications:

Peak Voltage = 1.2 Volts MAXIMUM
Peak Current = 1.0 Amps
Peak Power = 1.30 Watts

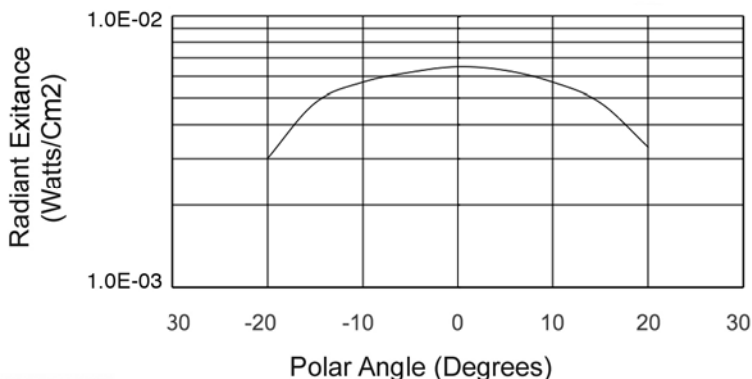
Current vs Voltage



Volts	I(Amps)	V*I (W)	V/I (Ohms)
0.50	0.48	0.24	1.05
0.60	0.56	0.34	1.07
0.70	0.65	0.46	1.07
0.80	0.74	0.59	1.08
0.90	0.82	0.74	1.09
1.00	0.91	0.91	1.10
1.10	1.00	1.10	1.10
1.20	1.08	1.30	1.11

Radiant Exitance (Watts/Cm²):

Volts = 1.20, Distance = 3.0 inches from source



Polar Angle	Average (W/Cm ²)
-20	3.00E-03
-15	4.80E-03
-10	5.70E-03
-5	6.20E-03
0	6.50E-03
5	6.30E-03
10	5.70E-03
15	4.80E-03
20	3.30E-03