HELIOWORKS

"Out Shines All Others"

NEW PRODUCT!

STEADY STATE **IR** SOURCE

Model EK-8622

HelioWorks, Inc. offers a unique steady state black body infrared emitter in an industry standard TO-8 package with a Calcium Fluoride (CaF2) window that provides transmission to over 9 microns. Input power is over 8 Watts at up to 1050º C (1323º K).

Key Features Include:

- Kanthal Filament with Emissivity = 0.7
- Over 8 Watts input power at 1050º C (1323º K)
- Calcium Fluoride (CaF2) Window
- Internal Gold Plated Parabolic Reflector
- Industry Standard TO-8 Package

Electrical Specification:

Peak Voltage = 3.5 Volts MAXIMUM
Peak Current = 2.40 Amps
Peak Power = 8.40 Watts

Current vs Voltage

V	I	W=V I	R=V/ I
0.50	0.35	0.18	1.42
1.00	0.70	0.70	1.42
1.50	1.04	1.56	1.44
2.00	1.37	2.74	1.46
2.50	1.70	4.25	1.47
3.00	2.04	6.12	1.47
3.50	2.40	8.40	1.46

Approximate 1323º K

Radiant Exitance

Volts = 3.5, Distance = 3.0 inches from source

Polar Angle	Average Intensity (Watts/Cm2)
-20	2.40E-02
-15	3.10E-02
-10	3.90E-02
-5	4.40E-02
0	4.60E-02
5	4.40E-02
10	3.60E-02
15	2.80E-02
20	2.10E-02

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