

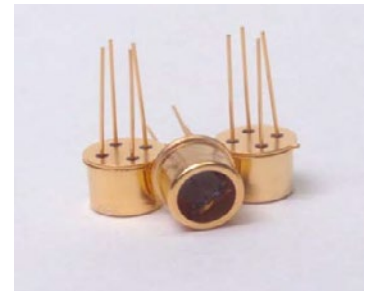
PULSABLE IR SOURCE Model EF-552X

**NEW
PRODUCT!**

HelioWorks, Inc. offers a unique dual element pulsable black body infrared emitter in an industry standard TO-39 package with 2.3 Watts peak input power at a peak temperature of 700°C (973°K). The elements can be operated individually, in series or in parallel. The data reflect series operation. Window options (X) include:
0 = No Window, 1 = Sapphire, 2 = Calcium Fluoride (CaF₂), 3 = Zinc Selenide (ZnSe)

Key features include:

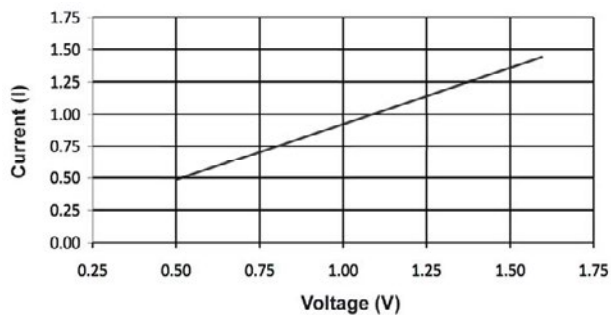
- Nickel/Chrome (NiCr) Filament with Emissivity = 0.88
- 2.3 Watts peak input power at 700°C (973°K)
- Operates in pulsed or steady state mode
- Industry Standard TO-39 package.
- Dual Element Filament that can be operated individually, in series, or parallel.
- Window Options (X) include:
 - 0 = No Window
 - 1 = Sapphire
 - 2 = Calcium Fluoride (CaF₂)
 - 3 = Zinc Selenide (ZnSe)



Electrical Specifications

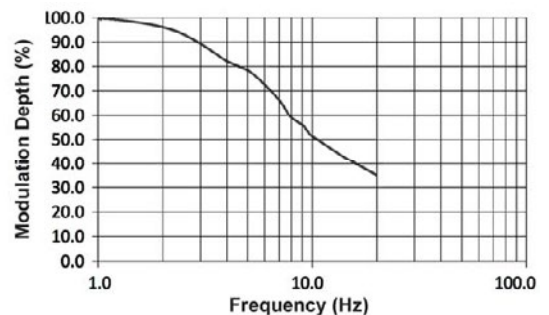
(Series operation)
Peak Voltage = 1.6 Volts DC MAXIMUM
Peak Current = 1.44 Amps
Peak Power = 2.30 Watts

Current vs. Voltage



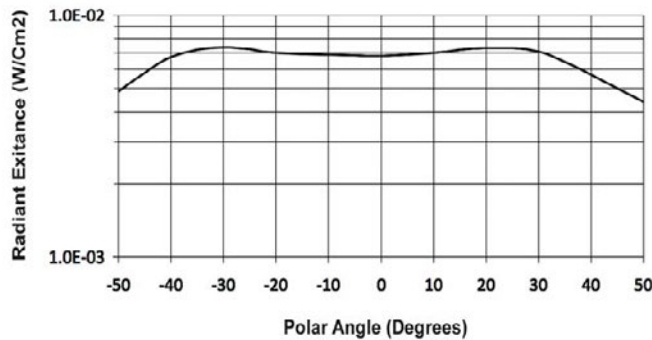
Modulation (%) vs. Frequency (Hz)

(50% Duty Cycle)



Radiant Exitance (Watts/CM²)

Volts = 1.6, Distance = 2" from source



Polar Angle	Watts/Cm ²
-50.00	4.85E-03
-40.00	6.73E-03
-30.00	7.40E-03
-20.00	7.03E-03
-10.00	6.88E-03
0.00	6.81E-03
10.00	7.03E-03
20.00	7.33E-03
30.00	7.11E-03
40.00	5.68E-03
50.00	4.40E-03