

Infrared Source IR-3x

- Supported, Coil Wound
- Operates at 950°C when powered with 4.2 watts
- Pulsable up to 1 Hz
- Available with a parabolic reflector to collimate energy (IR-35)

IR-30

IR-35

The IR-3x is a coil-wound, supported IR Source. At steady state, the coiled filament operates at approximately 950 degrees C when powered with 4.2 watts (2.5 volts, 1.7 amps). Expected life at this power level is 25,000 hours. This IR Source can be pulsed up to 1 hertz with a greater power input. For example, when operated at 1 hertz, 50% duty cycle with 3.5 volts and 7.1 watts, the output is a well defined saw tooth with approximately 32% modulation depth. This product is offered as an **IR-30** which is mounted on a TO-5 header and also as an **IR-35** in a 0.5 inch diameter parabolic reflector (for collimation of energy).

Recommended Operating Parameters

	IR-3x
Voltage	2.5 volts (AC or DC)
Temp	950° C
Current	1.7 Amperes
Power	4.2 watts
Life	25,000 Hours at 2.5 volts
Emissivity	0.70
Active Area	1.8 mm X 1.8 mm

HawkEye IR-3x Engineering Data Charts





