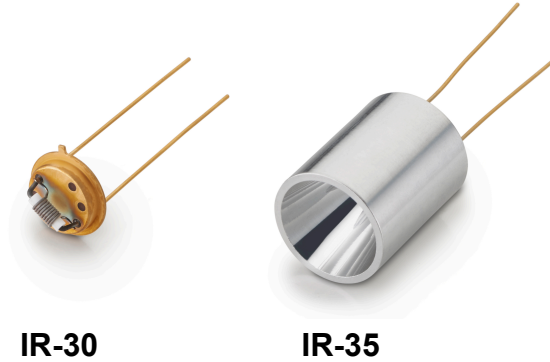


Infrared Source IR-3x

- 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 series is a coil-wound, supported IR Source, mounted on a TO-5 header. It is appropriate for use in laboratory or field instrumentation due to its long life and stable properties.

At steady state, the coiled filament operates at ~925°C when powered with 4.2 watts for the standard IR-30 and at ~950°C when powered with 4.2 watts for the IR-30K. The IR-30 uses a high stability wire whereas the IR-30K uses Kanthal resistance wire for operation at higher temperature. Apart from the wire used, the IR-30 and IR-30K are identical.

It can be pulsed up to 1 Hz with a larger power input. When operated at 1 hertz, 50% duty cycle with 3.5 volts, 7.1 watts, the output is a well-defined saw tooth with approximately 32% modulation depth. For higher modulation speeds, the pulsable sources should be considered

IR-3x	Recommended Operation
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

