

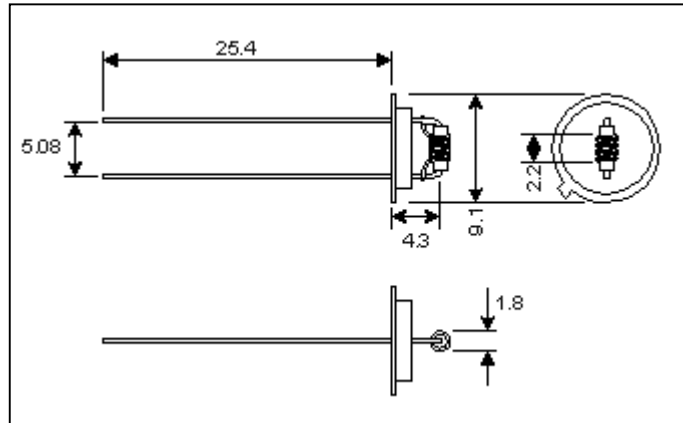
Series 30 – IR30 and IR-35

Coil wound 4.2 Watt TO5 Mounted Infra-Red Emitters

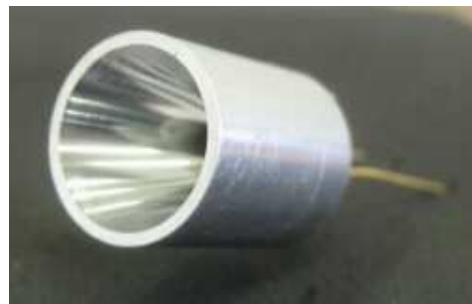
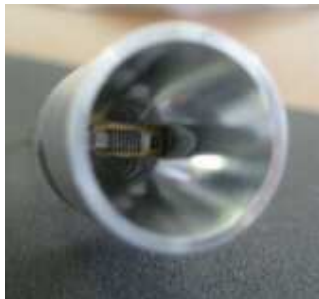
These IR sources are coil-wound, supported IR Sources, mounted on TO-5 headers. They are appropriate for use in lab or field instrumentation due to their long life and stable properties.



IR-30



IR-30 - dimensions in mm.



IR-35 – the IR-30 with parabolic reflector

The IR-30 Series of IR sources are coil-wound, supported IR Sources, mounted on TO-5 headers. At steady state, the coiled filament operates at $\sim 950^{\circ}\text{C}$ when powered with 4.2 watts (2.5 volts, 1.7 amps). They can be pulsed up to 1 Hz with a greater 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.

This product is available as the IR-30, without reflector, and the IR-35 which has a parabolic reflector to collimate the energy.

Operation in a controlled or sealed atmosphere is not required. For higher modulation speeds, the Series 50 IR sources should be considered.

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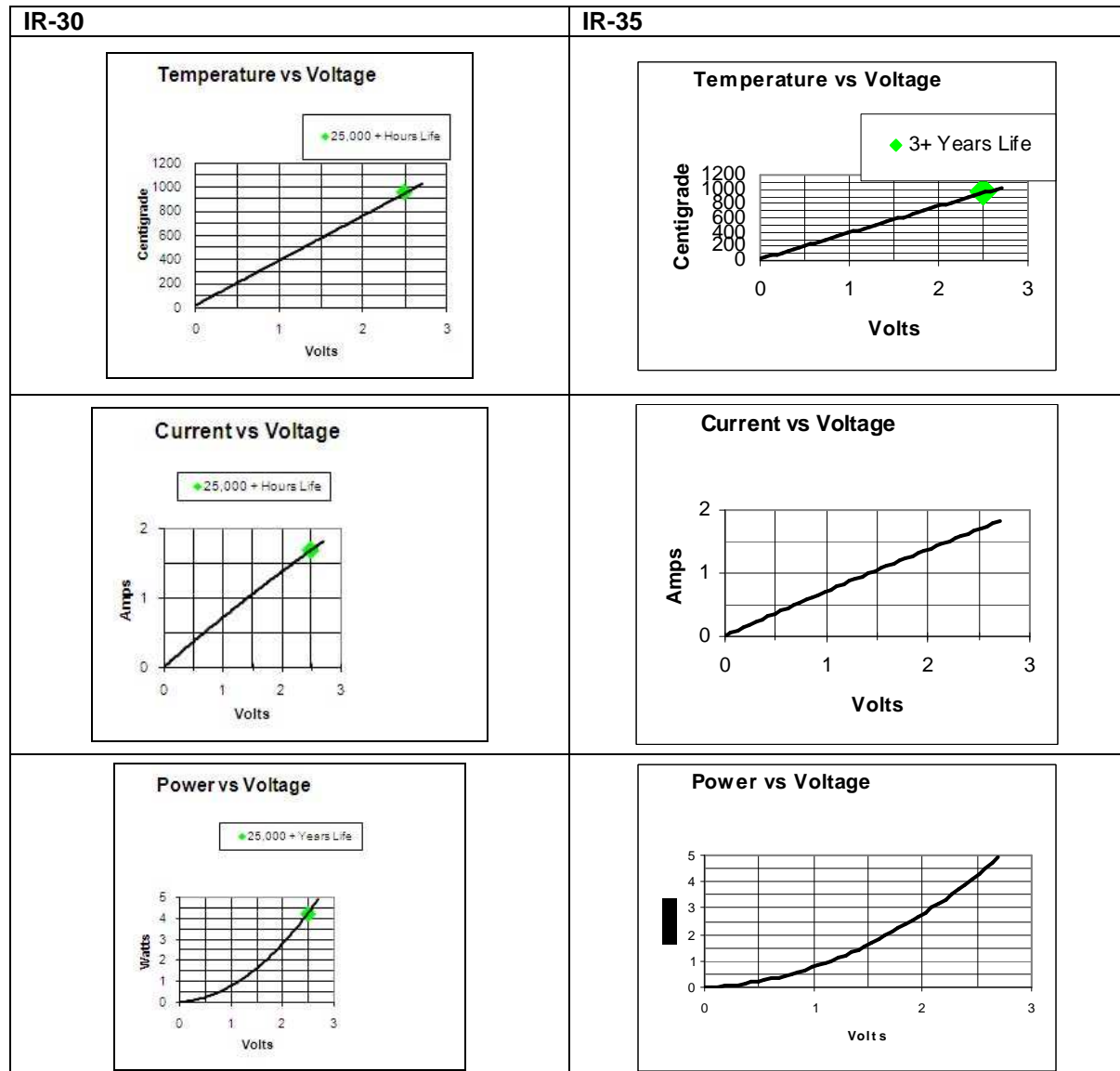
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Operating Specifications of IR-30 Series:

Parameter	IR-30	IR-35
Active Area	1.8 mm x 1.8 mm	
Emissivity	~0.75	
Temperature	950 degrees C	
Voltage	2.5 volts (AC or DC)	
Current	1.7 amps	
Lifetime	25,000 hours at 2.5 Volts	
Diameter	9.14mm	12.57mm
Length	30.6mm	16.41mm
IR-35 Normalized On-Axis Output	11x the output of the IR-30	

IR-30 Series Engineering Data Charts



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