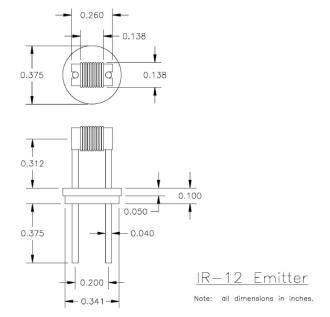
IR-12 Series Miniature 8 to 11 Watt Infrared Emitter



This IR source is a thermal emitter with emissivity ~0.8. It is appropriate for use in lab or field instrumentation due to its long life and stable properties.



The coiled resistance wire filament IR-12 operates at 825°C (1100K) when powered with 4.5 volts @ 1.8 amps (8 watts). The IR-12K takes higher electrical power and runs hotter. Emissivity is ~80% in the IR. The coil is wound on a cylindrical alumina substrate. Generally the IR-12K is recommended for maximum versatility. Operation in a controlled or sealed atmosphere is not required for either device.

The emitter coil is mounted horizontally on an 8.5 mm dia.

base. The emitter support pins also are the power leads and are sealed in glass. Active (coil) area is 3.5 mm dia x 3.5 mm tall.

The Series IR-12 is offered as follows:

Part #	Description	For Long Service Life (Temp @ Volts, Amps)	Recommended Upper Limit
IR-12	Standard unit – power approx 8 watts at 825C	825C @ ~4.5V, 1.8 A Lifetime > 3 years	1025C at ~6V, 2.4 A
IR-12K	Mechanically identical to standard unit but capable of higher temp operation	975C @ ~6.0V, 1.8 A Lifetime > 3 years	1125C at ~7V, 2.2 A

Parabolic and elliptical aluminum reflectors are available to collimate or focus the output of these devices. Boston Electronics can also supply custom designed miniature IR blackbody sources. Please inquire.

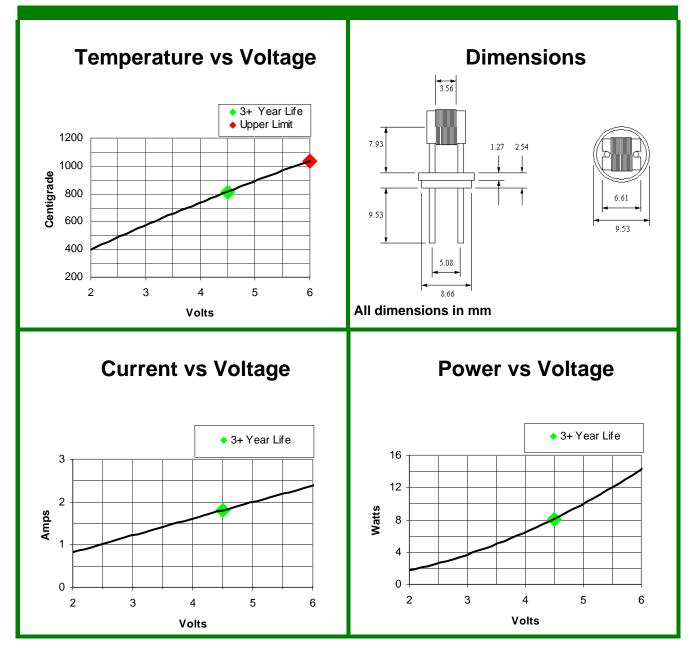




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IR-12 Steady State Infrared Emitter

ENGINEERING DATA



HawkEye Technologies LLC is a custom fabricator of IR sources. We will customize our existing products to your design specifications. We would be pleased to quote a new custom IR source, including engineering, that will meet your requirements.

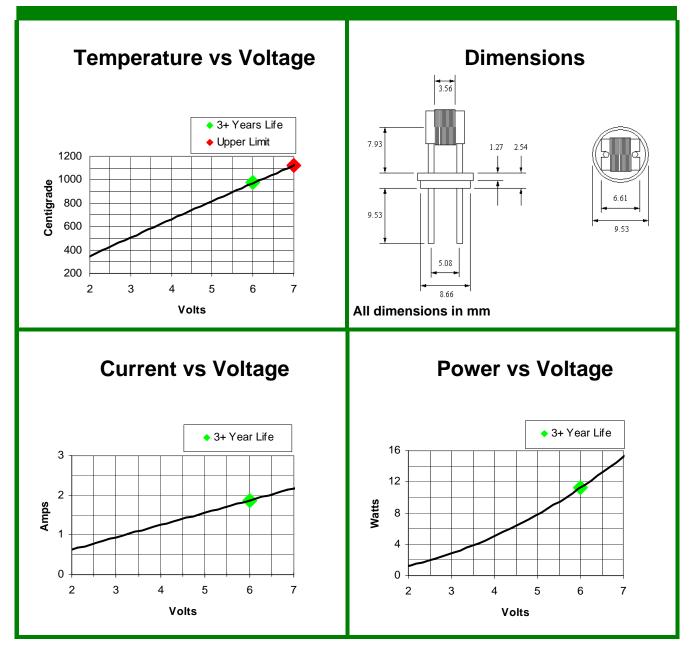




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IR-12K Steady State Infrared Emitter

ENGINEERING DATA



HawkEye Technologies LLC is a custom fabricator of IR sources. We will customize our existing products to your design specifications. We would be pleased to quote a new custom IR source, including engineering, that will meet your requirements.



Parabolic and Elliptical Reflectors For IR-12 and IR-2x series

p/n MC-233 is Elliptical p/n MC-234 is Parabolic

