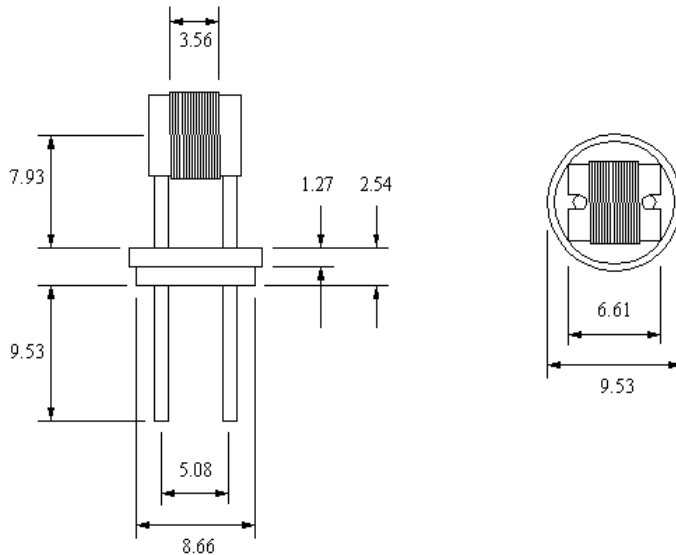


LC-IR-12 Series

Miniature 9 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 operates at 825°C (1100K) when powered with 5 volts @ 1.8 amps (9 watts). Emissivity is ~80% in the IR. The coil is wound on a cylindrical alumina substrate. Operation in a controlled or sealed atmosphere is not required.

The emitter coil is available mounted vertically or horizontally on an 8.5 mm dia. base. The emitter support pins also are the power leads and are sealed in glass.

The Series 12 is offered as follows:

Part #	Description
LC-IR-12	Standard. Filament mounted horizontally.
LC-IR-12-M	Filament partially masked to customer specifications with heat resistant material.

Operating Specifications:

Temperature	825°C (1100K)
Voltage	5.0 volts RMS (AC or DC)
Current	1.8 Amps
Active Area	3.5 x 3.5 mm
Emissivity	~80%
Lifetime	3+ years at 825°C, typical

Boston Electronics can also supply custom designed miniature IR blackbody sources. Please inquire.



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