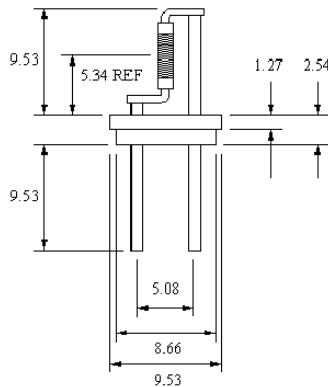


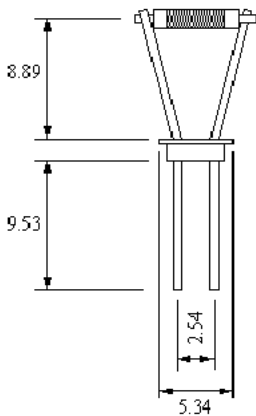
CS-IR-20 Series

Miniature 4 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.



CSIR-21-V
Vertical, large base



CS-IR-22
Horizontal, small base

The coiled resistance wire filament operates at 825C (1100K) when powered with 5 volts @ 0.8 amps (4 watts). Emissivity is ~80% in the IR. The coil is wound on a cylindrical alumina substrate. Its low mass allows low frequency electrical modulation to <1 Hz. Operation in a controlled or sealed atmosphere is not required.

The emitter coil is available mounted vertically or horizontally and on a small (4 mm dia.) or large (8.6 mm dia.) base. The emitter support pins also are the power leads and are sealed in glass.

The Series 20 is offered as follows:

Part #	Description
CS-IR-2 1-V	Large base. Filament mounted vertically
CS-IR-21	Large base. Filament mounted horizontally
CS-IR-22-V	Small base. Filament mounted vertically
CS-IR-22	Small base. Filament mounted horizontally

Operating Specifications:

Temperature	825°C
Voltage	5.0 volts RMS (AC or DC)
Current	0.8 Amps
Active Area	1.5 x 3.5 mm
Emissivity	~80%
Lifetime	3+ years at 825°C, not pulsed, typical

Boston Electronics also supplies custom designed miniature blackbody sources.

