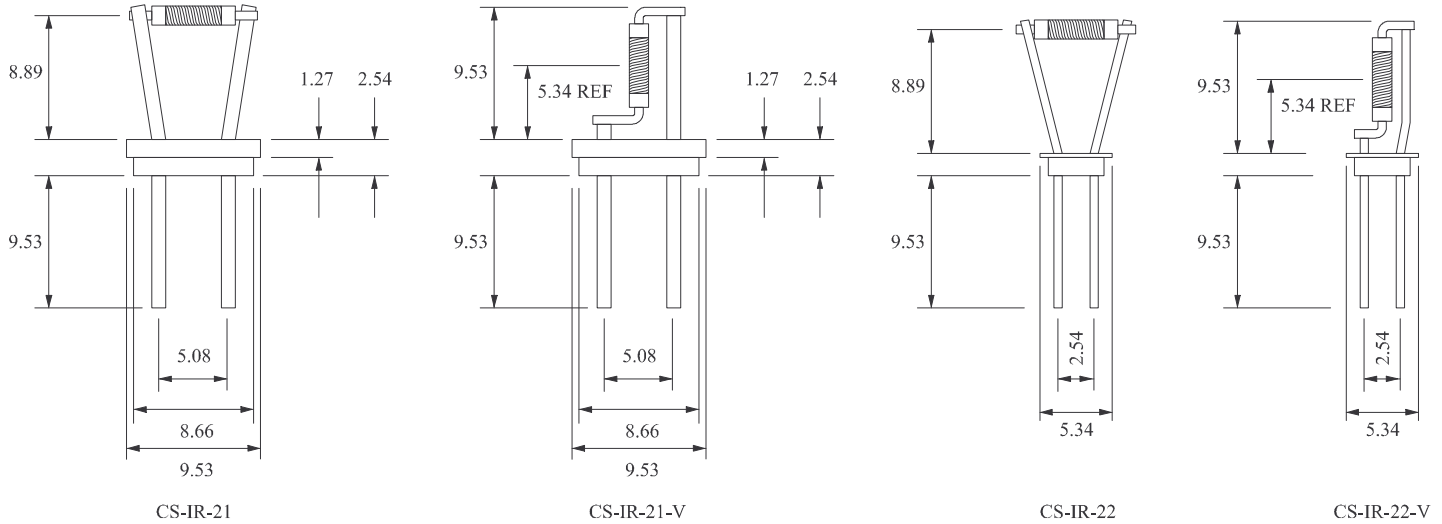


SERIES 20

MINIATURE 4 WATT INFRA-RED 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 @ 0.8 amps (4 watts). The radiating element is a coil of resistance wire which has a high emissivity in the infra-red spectral region. The coil is wound on a cylindrical alumina substrate.

Operation in a controlled or sealed atmosphere is not required.

The header body is available in two sizes. The larger, IR-21, has 0.2" pitch leads. The smaller, IR-22, has 0.1" pitch leads. The support pins are hermetically sealed in glass. The source can be fabricated with the header flange in either direction.



The Series 20 is offered as follows:

Operating Specifications:

Part #	Description
IR-21	Large header, horizontal element
IR-21-V (Standard)	Large header, vertical element
IR-22	Small header, horizontal element
IR-22-V (Standard)	Small header, vertical element

Temperature	825°C (1100K)
Voltage	5.0 volts RMS (AC or DC)
Current	0.8 Amps
Active Area	1.5 x 3.5 mm
Emissivity	$\sim 80\%$
Lifetime	3 + years at 825°C, typical

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