



Infrared Emitter IRS-001C

High Power & Low Cost IR source

- IRS' Infrared emitters can be used as continuous emitting source, which provides simultaneous blackbody radiation, without any absorption by windows/filters.
- Coiled filament is designed to operate at temperature of 850~950C(1120~1220K) with an emissivity of 0.7 ± 0.15 .



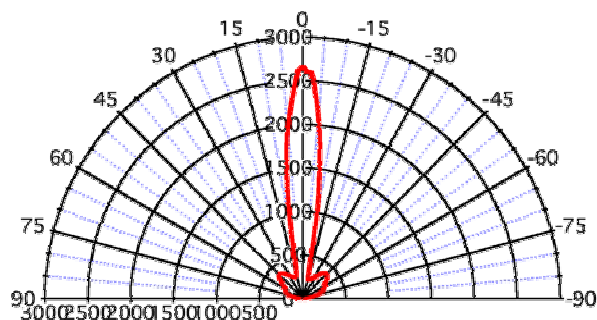
High-Power Infrared Emitter without covering window

Applications

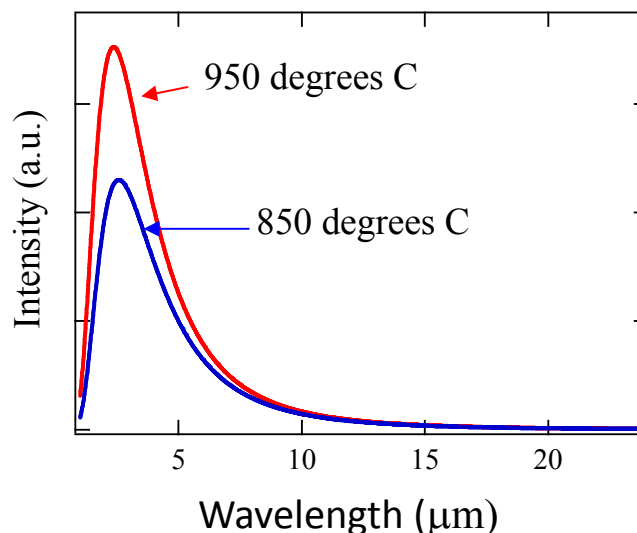
- ◆ Gas analysis (NDIR)
- ◆ Spectroscopy
- ◆ FT-IR, etc.

Features

- ◇ Longer lifetime (>30000h@CW, MTBF)
- ◇ Low Cost
- ◇ High Power
- ◇ Wide emitting wavelength



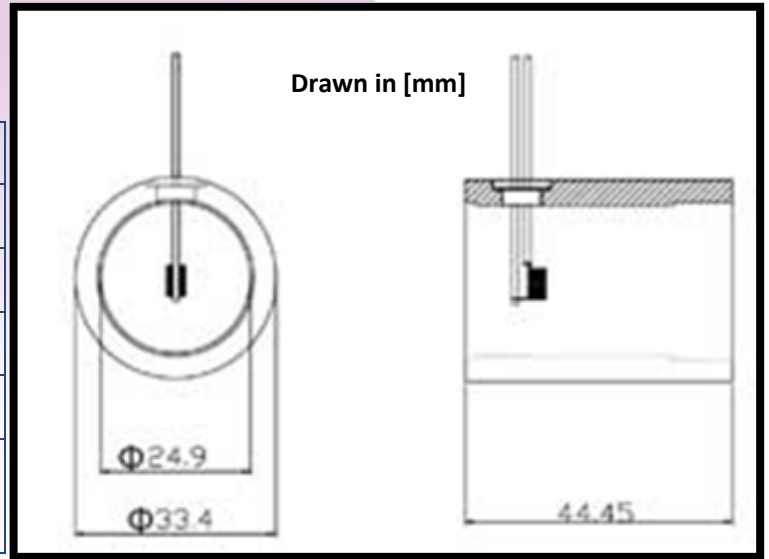
Angular Distribution of IRS-001C
(about 100mm distance from the edge)



Typical Spectrum of Blackbody radiation

Specification & Dimension

| | |
|------------------|---------------------------|
| Input Voltage | 5V |
| Current | 1.4 - 1.6 A (@5V) |
| Filament Temp. | 850 - 950 degrees C |
| Emissivity | 0.7 ± 0.15 |
| Average lifetime | > 30,000 hours |
| Note | Add heat sink to keep the |



Filament inside can be supplied without cylinder and mirror.



A reflector added onto its backside to propagate quasi-Collimated beam

Application

