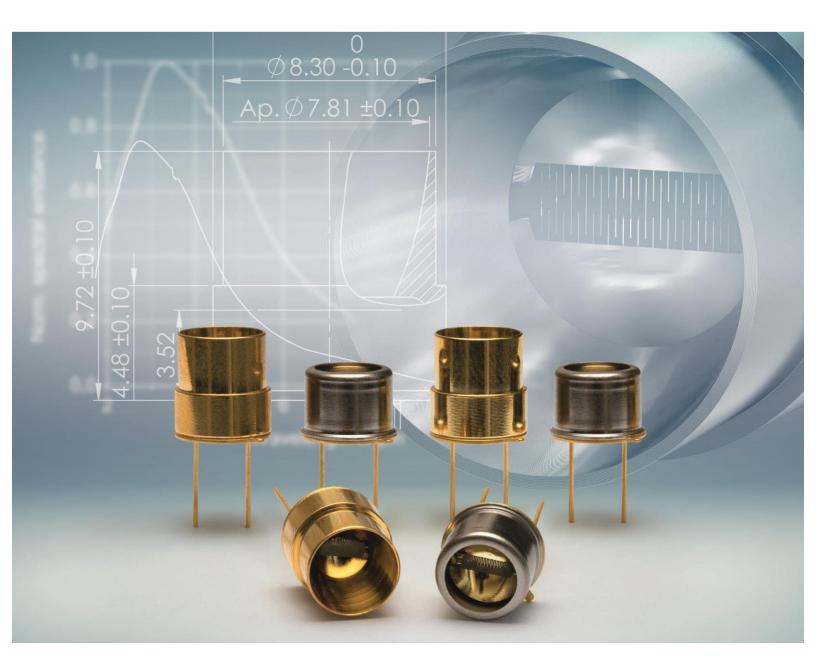


Electro Optical Components, Inc.

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Data Sheet

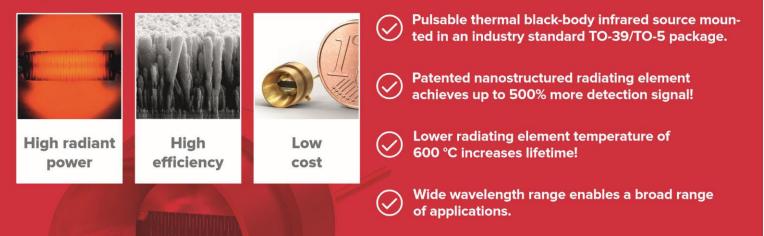
Basic series with Integrated Reflector Thermal Infrared Emitters

Basic Series with Integrated Reflector Thermal Infrared Emitters

These infrared radiation sources are pulsable thermal emitters with a near black-body emittance. Based on a patented nanotechnology and a patented emitter set-up made of a high-melting metal, the free-standing monolithic radiating element and the nanostructured emitter surface offer numerous advantages in many applications.

Basic Series with Integrated Reflector emitters have an integrated reflector that directs the radiation emitted from the rear to the front in order to achieve maximum efficiency. Our open emitters offer high performance for a wide spectral measuring range

Key features



innovative infrared sources for gas detection & spectroscopy

Main specifications

| Parameter | HISbasic series |
|-------------------------------|--------------------|
| Package | TO-39 / TO-5 |
| Radiating element area | 11 mm ² |
| Radiating element emissivity | > 0.8 |
| Radiating element temperature | 600 °C at 650 mW |
| Optical output power | up to 200 mW |
| Max. electrical power (DC) | 700 mW |
| lax. electrical voltage | 4.0 V |
| lax. electrical current | 175 mA |
| electrical resistance | 2123 Ω |
| Modulation frequency* | 4 Hz |
| Vavelength range | 2 to 12 μm |

* 70 % modulation depth, square wave signal, 50 % duty cycle

Optical specifications

