

Infrared-Emitter HIS2000R-CWC300



Thermal infrared emitter with Winston cone and soldered CaF_2 window, hermetically sealed

HIS2000R-CWC300 is a NiCr filament based thermal infrared emitter in a hermetically sealed TO-8 package with a soldered CaF_2 window and a Winston cone cap. This guarantees best long-term stability. The Winston cone cap bundles and focuses the beam for maximum optical performance.

Product Name: HIS2000R-CWC300

Gehäuse: TO-8

Strahlungselementbereich: 40 mm²

Strahlungsemission: > 0.9

Strahlungstemperatur: 630 °C at 2.5 W

Optische Ausgangsleistung: up to 725 mW

Max. elektrische Leistung (DC): 2.5 W

Max. elektrische Spannung: 3.8 V

Max. elektrischer Strom: 660 mA

Elektrischer Widerstand: 5...6 Ω

Modulationsfrequenz: 4 Hz

Filter/Fenster: CaF₂ (soldered)

Wellenlängenbereich: 2 to 11 µm

Füllgas: Nitrogen

Product code: 154372

Product details

Key features HISpower series

- Pulsable thermal infrared source mounted in an industry standard TO-8 package
- Patented nanostructured radiating element generates black-body spectrum
- Wide wavelength range enables a broad range of applications
- Highest optical output power of up to 1 W
- Soldered, high-quality filter windows guarantee long-term stable operation and high lifetime

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INFRASOLID® nanostructure technology

Infrasolid's patented nanostructure technology allows the fabrication of extremely thin and very heat-resistant black optical coatings. They are already used in our thermal infrared light sources but also in optical detector technologies and for stray light absorption in optical measurement systems. The broad spectral range of high absorption extends from UV up to far infrared wavelengths. A structuring of the black coatings can be done by photolithography to realize very small structures or local areas of blackening. The deposition is done on flat substrates. Temperature-sensitive materials, such as plastics, can be coated using our low temperature black coating process.

SOLIDSEAL® hermetic housing technology

Infrasolid's hermetic housing technology enables the soldering of different IR window materials, like CaF₂, BaF₂ and sapphire. It is used in our high-performance infrared radiation sources to ensure best long-term stability and highest lifetime. The hermetic packages do not show any permeation of water vapor or gases in contrast to glued windows. It opens up new fields of application, especially in harsh industrial environments such as explosion-endangered applications, corrosive gas mixtures, high temperature, high partial gas pressure, and high humidity.

The online shop

Quantity (pieces)	Price (per piece)
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1-4	CHF 178.08
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4-9	CHF 172.48
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10-24	CHF 166.88
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Lager: **5**