

Infrared-Emitter HIS100smd-0



Thermal infrared emitter in standard (3x3) mm² SMD package

HISsmd series emitters are small, powerful infrared radiation sources that meet the demands for reliable miniaturized gas sensors and offer a wide range of new application scenarios. The low energy consumption, the high efficiency and the small size allow the use in portable, battery-powered, and mobile applications.

Product Name: HIS100smd-0

Gehäuse: SMD 3 x 3 mm²

Strahlungselementbereich: 1 mm²

Strahlungsemission: > 0.9

Strahlungstemperatur: 600 °C at 290 mW

Optische Ausgangsleistung: up to 30 mW

Max. elektrische Leistung (DC): 290 mW

Max. elektrische Spannung: 1.7 V

Max. elektrischer Strom: 170 mA

Elektrischer Widerstand: 9...10 Ω

Modulationsfrequenz: 10 Hz

Filter/Fenster: None

Wellenlängenbereich: 2 to 20 μm

Füllgas: None

Product code: 154106

Product details

HISsmd series

Miniaturized infrared sources in SMD housing

HISsmd series emitters are small, powerful infrared radiation sources that meet the demands for reliable miniaturized gas sensors and offer a wide range of new application scenarios. The low energy consumption, the high efficiency and the small size allow its use in portable, battery-powered, and mobile applications. The pioneering SMD package enables a fully automated production in high-volume markets.

Key features HISsmd series

- Pulsable thermal infrared source mounted in an industry standard (3x3) mm² SMD 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 40 mW
- Hermetically sealed, high-quality filter windows guarantee long-term stable operation and high lifetime
- SMD package allows fully automatic assembly in high-volume series

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.

Infrared-Emitter HIS100smd-0 > Details

The online shop

Quantity (pieces)	Price (per piece)
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1-4	CHF 23.52
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5-9	CHF 19.04
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10-24	CHF 17.36
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Lager: **7**