

LSH-SiN40 / LSSiN-40

Silicon Nitride Infrared Source

A thermal infrared emitter with gold-coated collection optics and a DC supply. The source provides a broad infrared spectrum without water cooling for infrared illumination and monochromator systems.

Best suited to: Broadband infrared spectroscopy and thermal-source illumination.



Configuration

Match the collection optics, filters and detector to the usable infrared band. The emitter range is broader than the range delivered by a configured monochromator system.

Specifications

Published parameters	
Published spectral range	1–14 μm
Emitter power	≥ 40 W
Emitter operating point	8 V / 6 A
Emitter area	4 × 15 mm
Emitter temperature	900–1200 °C
Nominal emitter life	≥ 2000 h
Output stability	Better than 2%
Optical-axis height	128–168 mm

Measurement features

- Gold-coated reflector with published reflectance above 96%.
- f/4 collection geometry and adjustable source height.
- No water cooling required.

Configuration note

The wider 1–16 μm parenthetical range is not treated as a guaranteed configured output. Detector response and optical transmission must be specified separately.

Full configuration: www.precisometer.com/spectroscopy/light-sources/sin40