

Cubic Mounts

Heatsinks for TO5 and TO66

ACCESSORIES

TO5 / TO66 cube

Collimation

Lens on Cap

Sockets

nanoplus lasers enable high-precision trace gas analysis in over 50,000 installations worldwide. Even in harsh environments, they work reliably and with low maintenance.

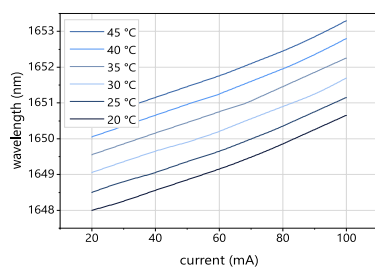
One of the basic requirements is optimal thermal management of the laser. The operating temperature and its stability significantly determine the laser performance. They have a considerable influence on the quality and repeatability of the measurement. The nanoplus cubic mount was designed specifically for this purpose.

Key features:

- IMPROVED HEAT DISTRIBUTION
- CONNECTORS
- M6 THREADS
- FOR STANDARD CAGE SYSTEM



TO5 and TO66 header



Mode-hop free tuning of a nanoplus DFB laser by current and temperature

We recommend using a heatsink for the operation of our lasers. Because many laser parameters depend on temperature control, such as **wavelength tuning, threshold current, efficiency, and lifetime.**

Better **heat distribution** is, hence an essential prerequisite for achieving high-precision measurements.

For more details, see our **technical note on thermal management.**

Conceived as a **plug-and-play system**, the cubic mount disposes of standard **connections** for the TEC controller and laser diode driver.

It also disposes of four **M6 threads** for integrating the heat-sink into a standard optical post.

“Do not change your ideas, let us deliver the packaging that fits your application.”

The nanoplus cubic mount is compatible with most standard cage systems.

If you require **custom specifications**, please contact us. Nearly 80 % of our devices are more or less customer-specific. As nanoplus is a **fully vertically integrated company**, we control the entire process chain from design to packaging. Both nanoplus production facilities are based in **Germany**. To guarantee consistent product quality we apply a strict and **ISO certified quality management system** at all levels.

Our sales and R&D teams have long-standing experience in developing lasers. They will advise you in your design and realization phase as well as after-sales: **We make market leaders!**

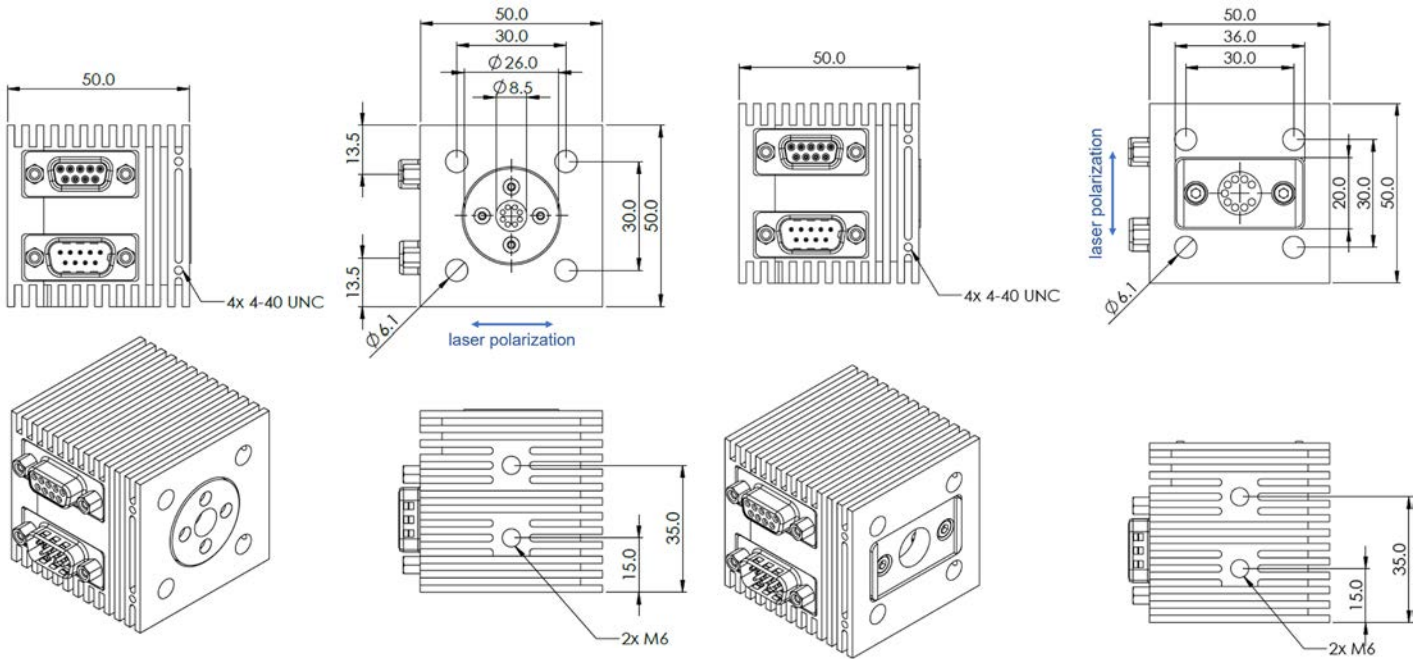


nanoplus heatsink for TO5 or TO66 housing



Typical Specifications: Heatsinks for TO5 and TO66

This data sheet shows typical specifications of our cubic mounts for TO5 and TO66 housings.



nanoplus cubic mount for TO5

nanoplus cubic mount for TO66

pinout	D-Sub-M	D-Sub-F	laser (TO5)	laser (TO66)
1	---	connected to 5	LD +	TEC +
2	NTC +	PD*	LD -	NTC -
3	NTC -	LD -	TEC -	NTC +
4	TEC +	PD*	TEC +	PD*
5	TEC -	connected to 1	NTC +	PD*
6	---	LD -	NTC -	---
7	---	LD -	PD*	LD +
8	---	LD +	PD*	LD -
9	---	LD +	---	TEC -

options

The cubic mounts are available with collimation upon request.

We offer 3D STP-model data for this cube for download at <https://nanoplus.com/packaging>.

Technical drawings & accessories are available at: <https://nanoplus.com/products/packaging-options>

Please contact sales@nanoplus.com for customized specifications, quotes and further questions.

Visit our website for technical notes, application samples or literature referrals.

nanoplus Nanosystems and Technologies GmbH, www.nanoplus.com, phone: +49 (0) 3693 50 5000-0, email: sales@nanoplus.com
©copyright nanoplus Nanosystems and Technologies GmbH 2023, all rights reserved. Technical data is subject to change without notice.