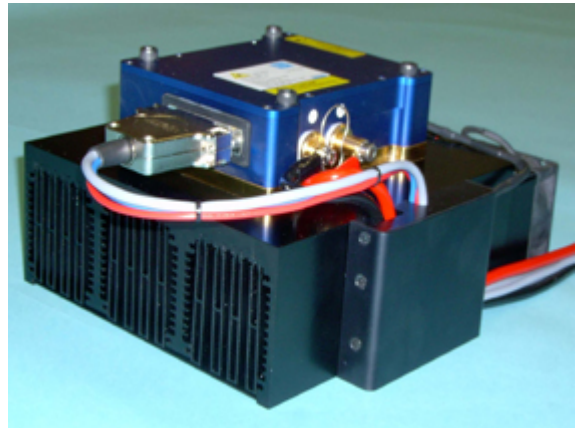


Heat Sink COOL50



Without peltier elements, temperature sensor and heat spread plate



For example with 50W laser diode

Features

- Up to 120W heat load
- High temperature accuracy
- Peltier driven, air cooling
- Available with or without peltier elements, temperature sensor and heat spread plate
- LD- and Cooler-cable included

Applications

- Temperature stabilization of passively cooled high power laser diodes, laser arrays and laser stacks up to about 50W optical power

Description

The heat sink COOL50 was designed for temperature stabilization of high power laser diodes, laser arrays and laser stacks of about 50W optical power. Depending from the temperature difference between laser diode and ambient air the max. heat load is up to 120W.

A heat sink includes the metal block, fans for the heat dissipation, the peltier elements (TEC's), a heat spread plate with a temperature sensor, the laser diode cable and the cooler cable.

For using laser diodes with integrated peltier elements and temperature sensor the heat sink is available without peltier elements, temperature sensor and heat spread plate for a reduced price.

Specifications

Thermal Characteristics	COOL50
Heat Load (max) with a temperature difference between laser diode module and ambient air of	
0 K	120 W
5 K	90 W
10 K	60 W
T _{max} (hot side)	50°C
Temperature Difference	40 K
Thermal Resistance	0.1 K/W
Electrical Characteristics	
Temperature Sensor	NTC 10 kOhm
Peltier Current	0...±10 A
Peltier Voltage	0...±25 V
Fan Current	800 mA
Fan Voltage	12 V
General Characteristics	
Ambient Temperature	0...30°C
Relative Humidity	30...70 %
Weight	3 kg
Dimension (w x d x h) in mm ³	230 x 210 x 95