

Multi-channel Laser Module with Fiber Outputs

1030 nm / 1050 nm / 1064 nm / 1070 nm / 1080 nm / 1090 nm

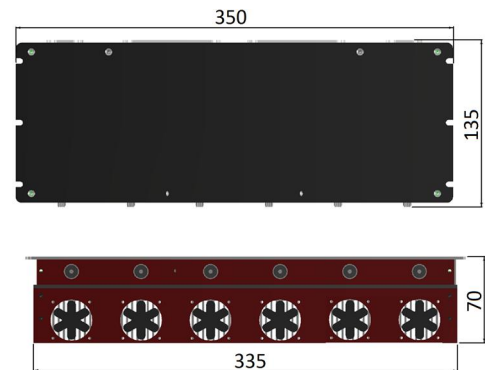
AKELA Part Number: ALC-10xx-02000-FM100.22x6-LDTCl (rev. 10/12)

This high power laser diode module features individually addressable channels and is suitable for a broad range of applications including materials processing, biomedical research, medicine, environmental research, illumination, etc. The module output can be configured using a USB port or by external voltages (0-5V). Capable of operating in continuous wave and pulsed regimes, this module is ideally suited for both OEM use and within various lab settings. Features include automated thermal management and several emergency shut-down options. The number of channels in a module may be customized to meet the customer's design criteria. The module is highly versatile and can accommodate any combination of different wavelengths ranging from 635nm to 1950nm.

The module

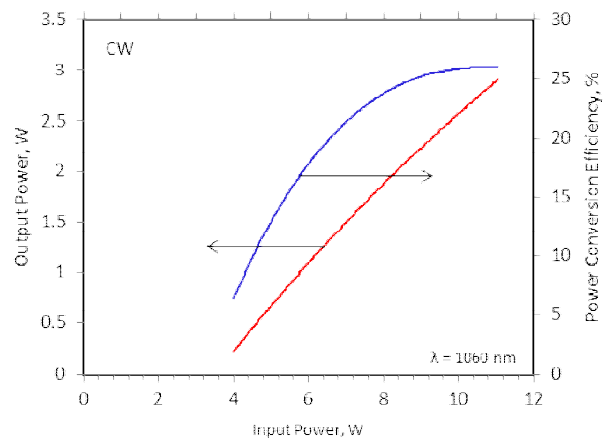


Module can be mounted using either M4 or #8 screws.



Typical performance characteristics per channel

Parameter	Value	Unit
Operating output power	2	W
Threshold input power	<5	W
Operating voltage	12	V
Wall plug efficiency at operating power	>25	%
Wavelength tolerance	±5, ±10, ±20	nm
Spectrum width (FWHM)	<14	nm
Fiber core diameter/ NA	100 / 0.22 200 / 0.22	μm / ## μm / ##
Fiber connector	SMA	
Mounting footprint	350 × 135	mm ²



Note: The consumed power includes the power of the cooling system. The measurement was performed at typical ambient temperature (20°C). The consumed power varies depending on ambient temperature.

Specifications are subject to change without notice. In addition, AKELA can customize the laser design to meet different operating parameters. Please contact us for more details.

These components do not comply with the Federal Regulations (21 CFR Subchapter 1) as administered by the Center for Devices and Radiological health. Purchaser acknowledges that his/her products must comply with these regulations before they can be sold to a customer.