

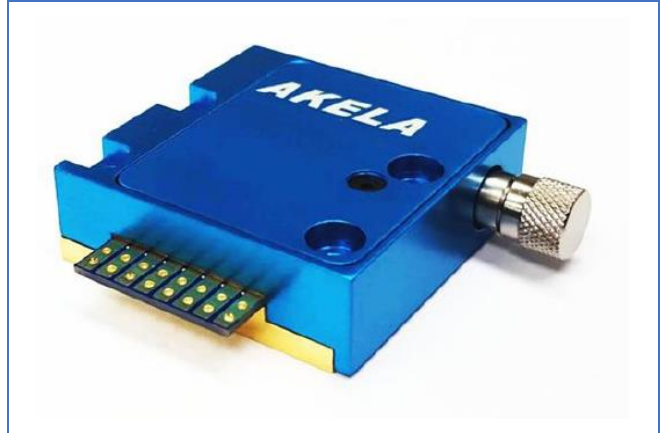
ALC-0808-13000-FM200.22 TRIO

Overview

Main Features

- 808 nm / 13 W
- 200 μm core fiber
- Detachable fiber
- Compact footprint
- Temperature sensor
- Power monitor (optional)
- Visible pointer (optional)

TRIO Package



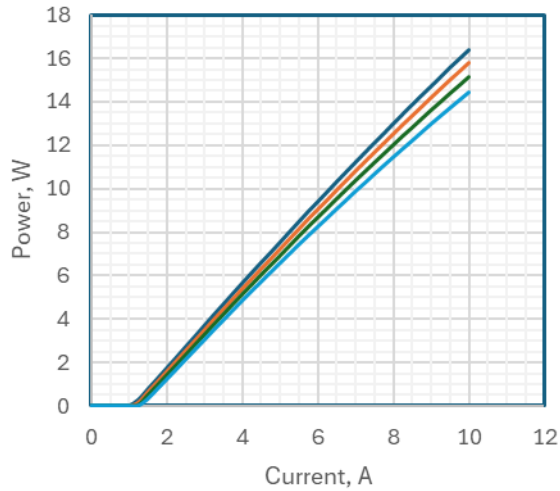
Typical Performance Characteristics

Parameter	Symbol	LD	Unit
Operating temperature	T	20	$^{\circ}\text{C}$
Operating power ex-fiber	P_{op}	13	W
Center wavelength	λ	808 \pm 8	nm
Spectrum width, $1/e^2$	$\Delta\lambda$	<4	nm
Wavelength-temperature coefficient	$\Delta\lambda/\Delta T$	0.27	nm/ $^{\circ}\text{C}$
Linearized wavelength-current	$\Delta\lambda/\Delta I$	0.49	nm/A
Threshold current	I_{th}	1.17	A
Differential efficiency	η_{ext}	1.9	W/A
Operating current	I_{op}	8.0	A
Operating voltage	V_{op}	4.0	V
Maximum current (10 seconds)	I_{max}	10.0	A
Power monitor photodiode current	I_{mon}	>0.05	mA
Detachable fiber connector		SMA	
Fiber core diameter	D_{fiber}	200	μm
Fiber NA		0.22	

OPTIONAL POINTER: >1mW at 638 \pm 5nm, 2.9V operating voltage, typical drive current <30mA

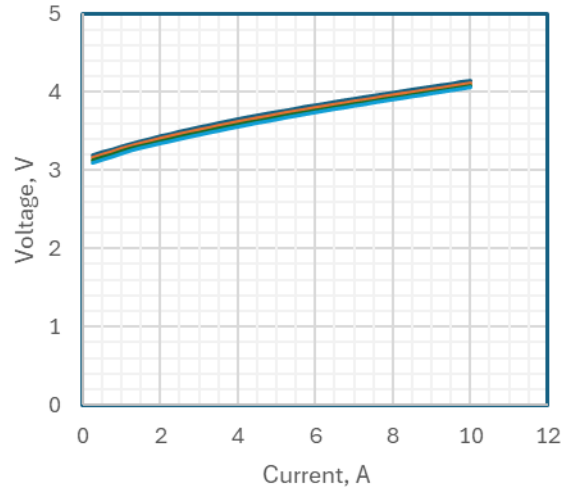
Electro-optical characteristics

P-I at different temperatures



P-I at (downward): 15°C-25°C-35°C-45°C.

V-I at different temperatures

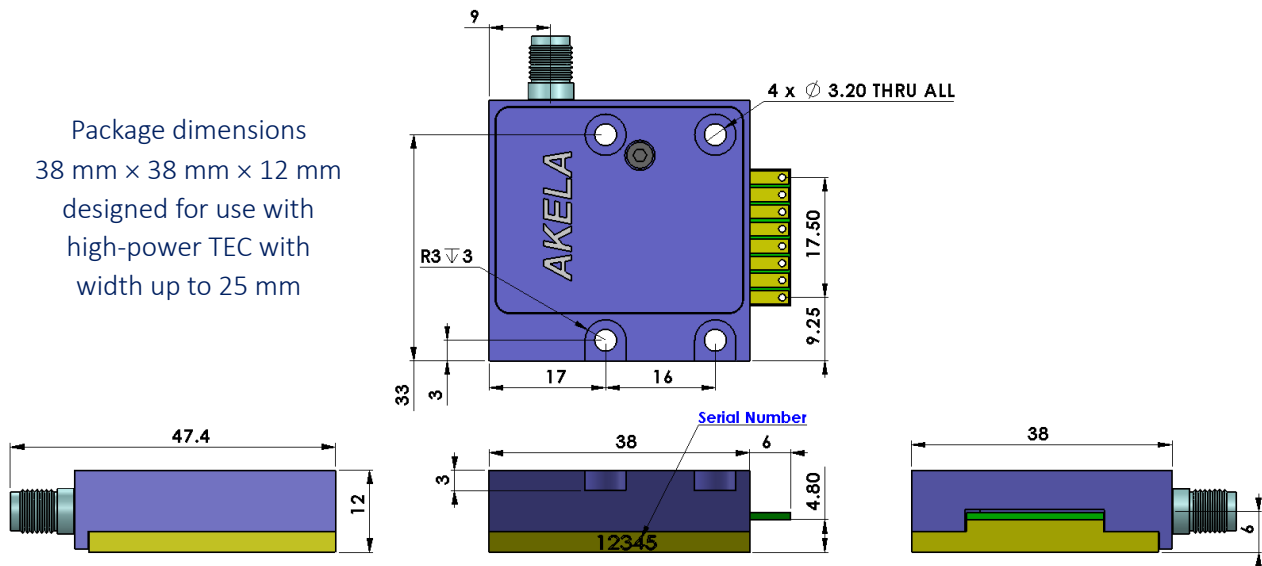


V-I at (downward): 15°C-25°C-35°C-45°C.

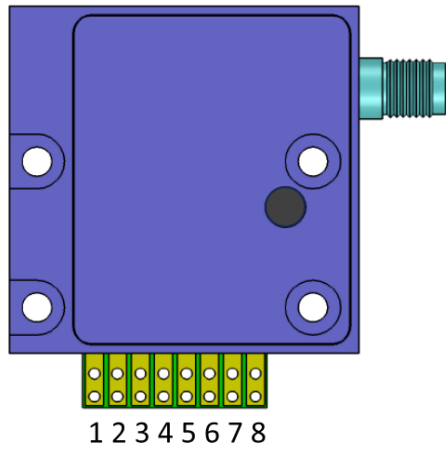
Dimensions and Pinout

Mechanical Drawings

Package dimensions
38 mm × 38 mm × 12 mm
designed for use with
high-power TEC with
width up to 25 mm



Pinout



Pin #	Function
1	Red pointer (+)
2	Red pointer (-)
3	Laser diode (+)
4	Thermistor
5	Thermistor
6	Power Monitor PD InGaAs (+)
7	Power Monitor PD InGaAs (-)
8	Laser diode (-)

Document Revision History

Revision Number	Revision Date	Nature of Revision	Approved by
1	October 17, 2024	New document created based on test data acquired in 2018-2024	M.M.



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.

Akela laser Corporation reserves right to change any specifications.