

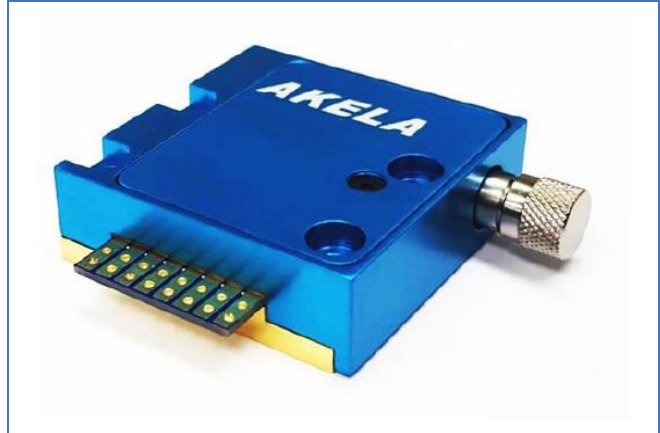
ALC-0690-01600-FM200.22 TRIO

Overview

Main Features

- 690 nm / 1.6 W
- 200 μm core fiber
- Detachable fiber
- Compact footprint
- Temperature sensor
- Power monitor (optional)

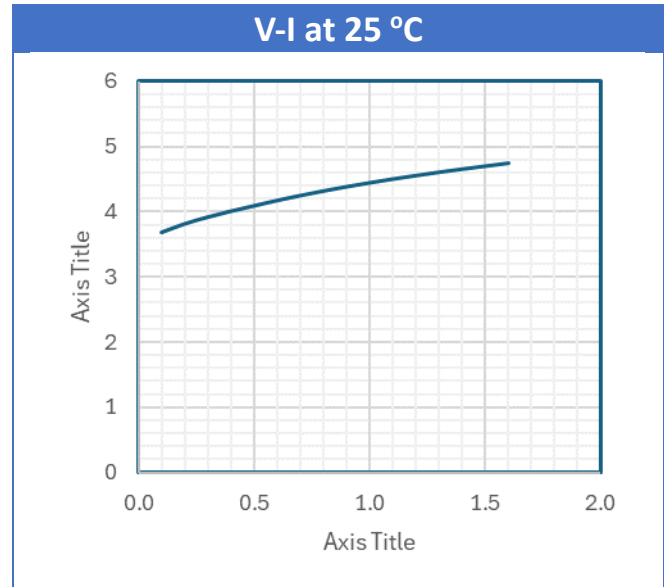
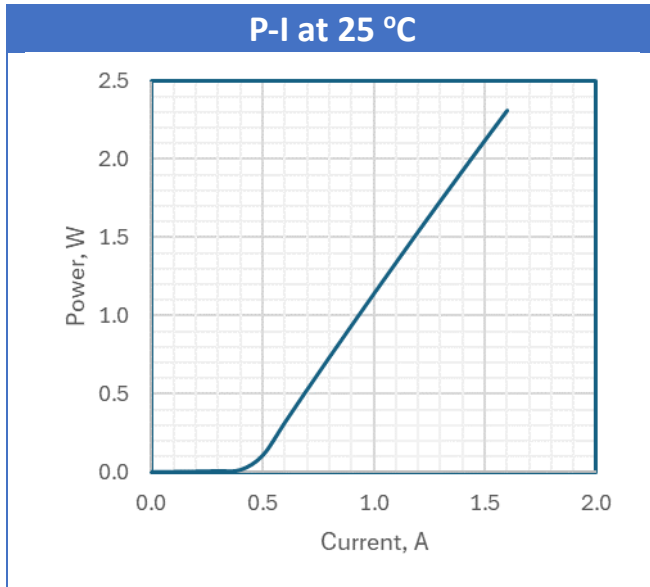
TRIO Package



Typical Performance Characteristics

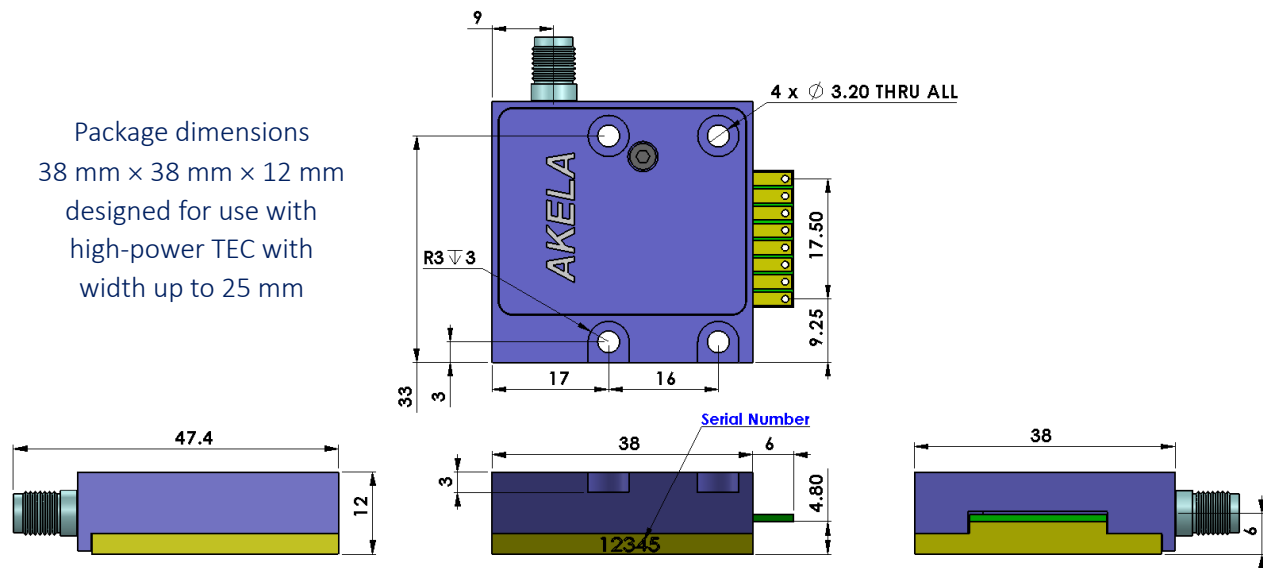
Parameter	Symbol	LD	Unit
Operating temperature	T	25	$^{\circ}\text{C}$
Operating power ex-fiber	P _{op}	1.6	W
Center wavelength	λ	690 \pm 3	nm
Spectrum width, 1/e ²	$\Delta\lambda$	<3	nm
Wavelength-temperature coefficient	$\Delta\lambda/\Delta T$	0.2	nm/ $^{\circ}\text{C}$
Linearized wavelength-current	$\Delta\lambda/\Delta I$	1.62	nm/I
Threshold current	I _{th}	0.45	A
Differential efficiency	η_{ext}	2.09	W/A
Operating current	I _{op}	1.3	A
Operating voltage	V _{op}	4.6	V
Maximum current (10 seconds)	I _{max}	1.6	A
Power monitor photodiode	I _{mon}	>0.05	mA
Detachable fiber connector		SMA	
Fiber core diameter	D _{fiber}	200	μm
Fiber NA		0.22	

Electro-optical characteristics

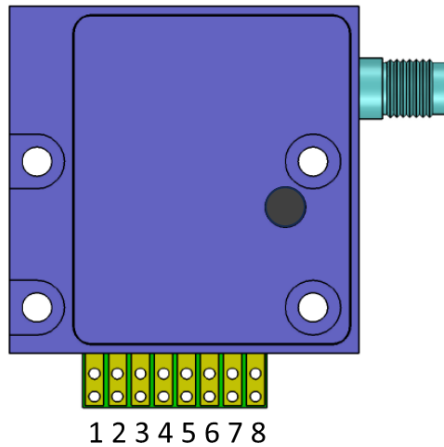


Dimensions and Pinout

Mechanical Drawings

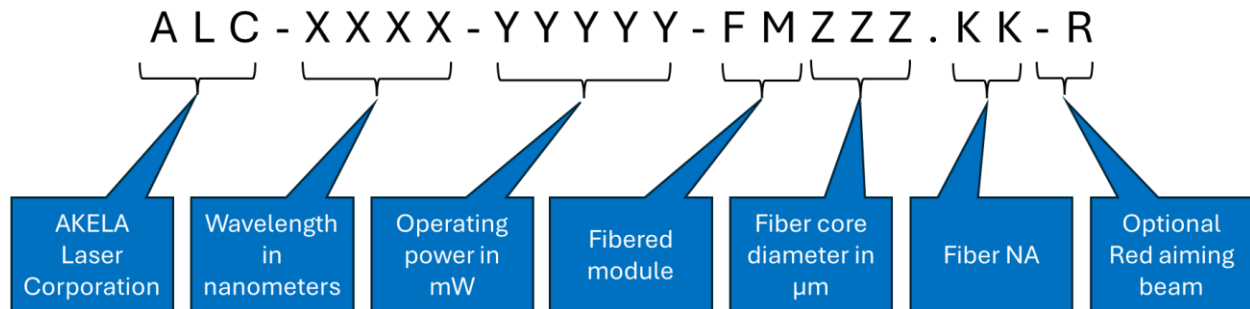


Pinout



Pin #	Function
1	Power Monitor Photodiode (+)
2	Power Monitor Photodiode (-)
3	Thermistor
4	Thermistor
5	Laser diode (+)
6	Laser diode (-)
7	Not used
8	Not used

Part Number Notation



Document Revision History

Revision Number	Revision Date	Nature of Revision	Approved by
1	April 4, 2024	New document created	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.