

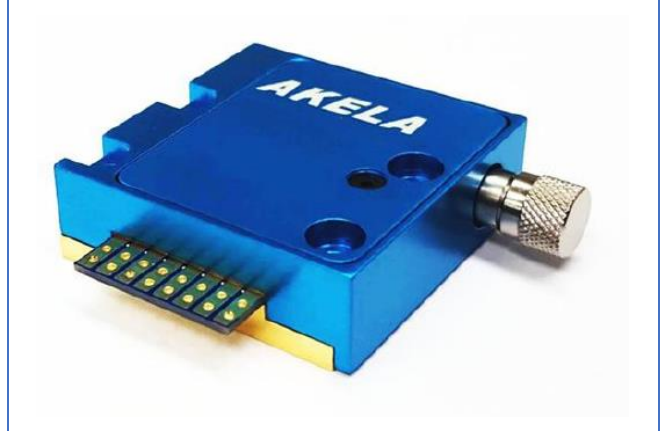
ALC-0660-02000-FM140.22 TRIO

Overview

Main Features

- 660 nm / 2.0 W
- 140 μm core fiber
- Detachable fiber
- Compact footprint
- Temperature sensor
- Power monitor (optional)

TRIO Package

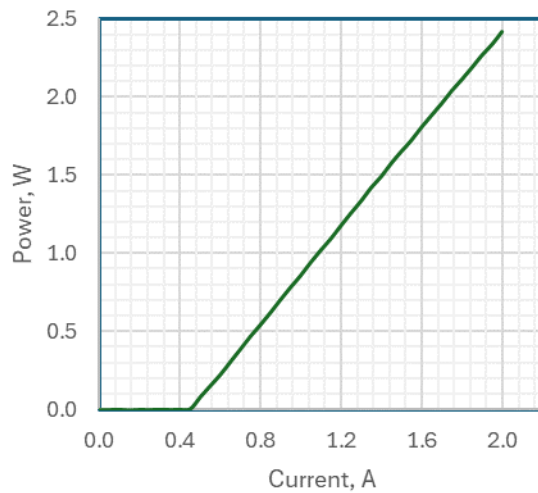


Typical Performance Characteristics

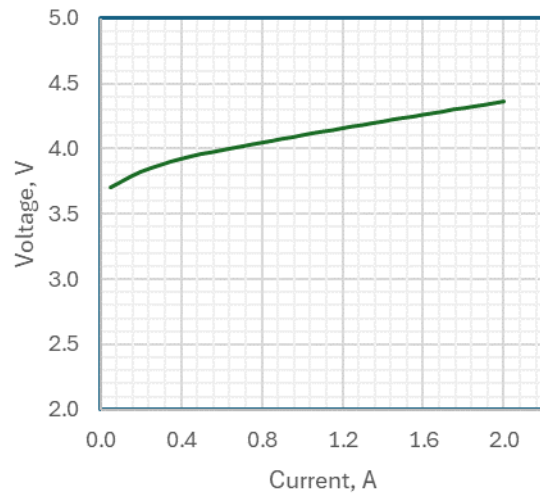
Parameter	Symbol	LD	Unit
Operating temperature	T	20	$^{\circ}\text{C}$
Operating power ex-fiber	P _{op}	2.0	W
Center wavelength	λ	660 \pm 7	nm
Spectrum width, 1/e ²	$\Delta\lambda$	<5	nm
Wavelength-temperature coefficient	$\Delta\lambda/\Delta T$	0.2	nm/ $^{\circ}\text{C}$
Linearized wavelength-current coefficient	$\Delta\lambda/\Delta I_{\text{op}}$	1.6	nm/A
Threshold current	I _{th}	0.46	A
Differential efficiency	η_{ext}	1.59	W/A
Operating current	I _{op}	1.8	A
Operating voltage	V _{op}	4.4	V
Maximum current (10 seconds)	I _{max}	2.0	A
Power monitor photodiode	I _{mon}	>0.05	mA
Detachable fiber connector		SMA	
Fiber core diameter	D _{fiber}	140	μm
Fiber NA		0.22	

Electro-optical characteristics

P-I at 20 °C

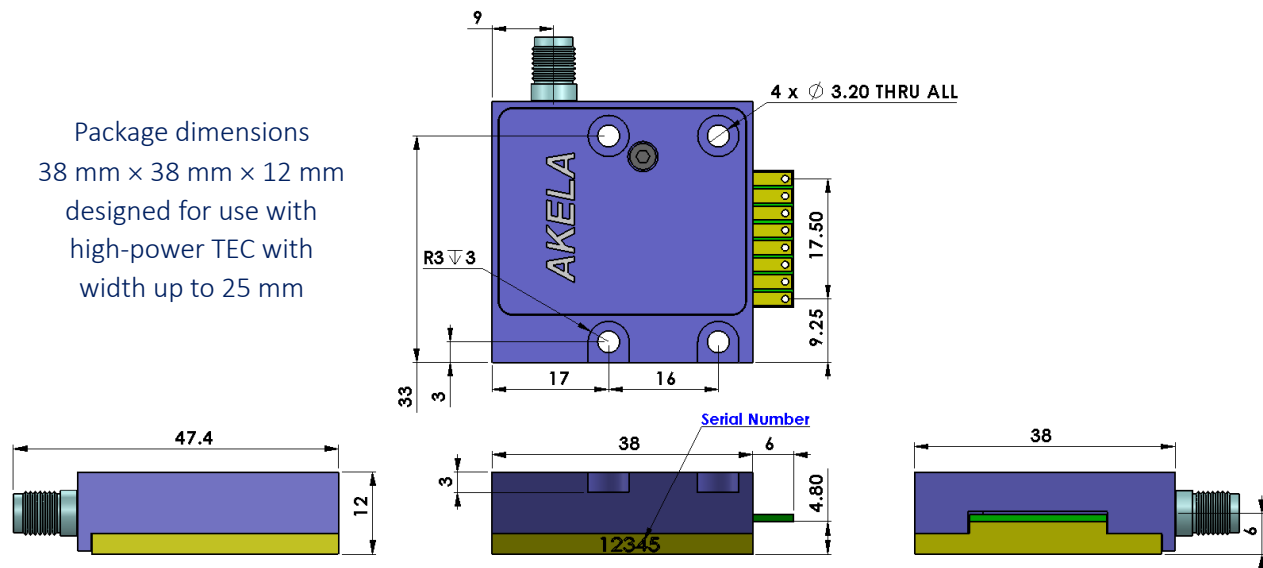


V-I at 20 °C

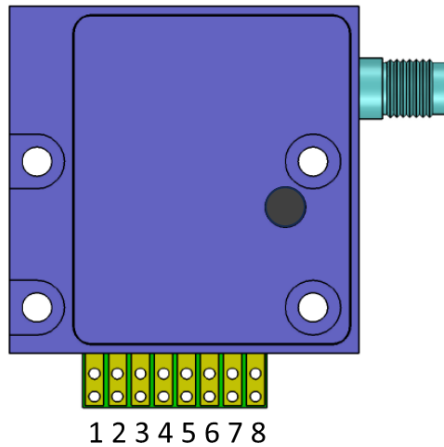


Dimensions and Pinout

Mechanical Drawings

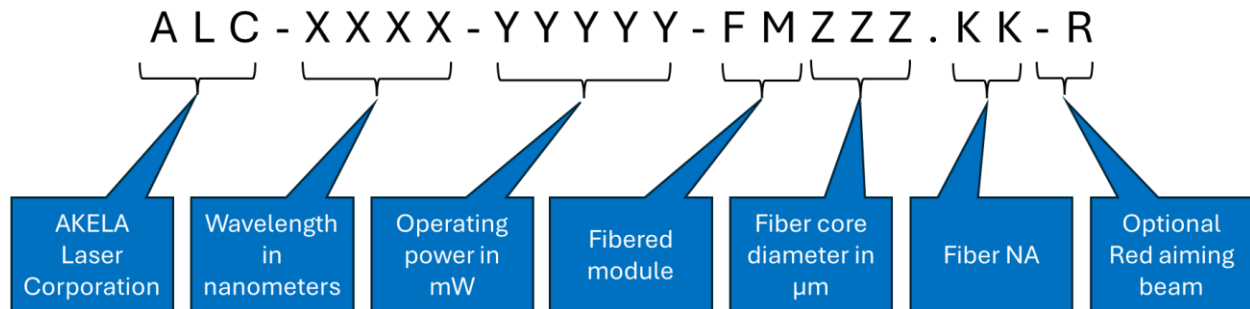


Pinout



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	September 27, 2024	Document created based on new test data	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.