

ALC-0940-45000-FM365.22 SETIA

Overview

Main Features

- 940 nm / 45 W
- 365 µm core fiber
- Detachable fiber
- Compact footprint
- Fiber sensor (optional)
- Temperature sensor
- Power monitor (optional)
- Visible pointer (optional)

Typical Performance Characteristics

Parameter	Symbol	LD	Unit
Operating temperature	Т	20	°C
Operating power ex-fiber	P _{op}	45	W
Center wavelength	λ	940±10	nm
Spectrum width, 1/e ²	Δλ	<8	nm
Wavelength-temperature coefficient	Δλ/ΔΤ	0.35	nm/ºC
Linearized wavelength-current	Δλ/ΔΙ		nm/A
Threshold current	I _{th}	0.9	А
Differential efficiency	η_{ext}	5.3	W/A
Operating current	I _{op}	10.0	А
Operating voltage	V _{op}	9.7	V
Maximum current (10 seconds)	I _{max}	12.0	А
Power monitor photodiode current	I _{mon}	>0.05	mA
Detachable fiber connector		SMA	
Fiber core diameter	Dfiber	365	μm
Fiber NA		0.22	

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



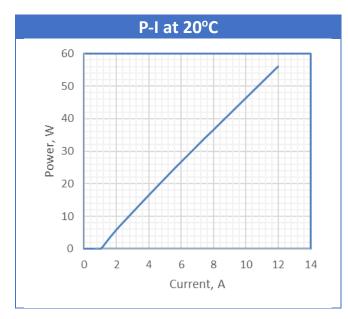


V-I at 20°C

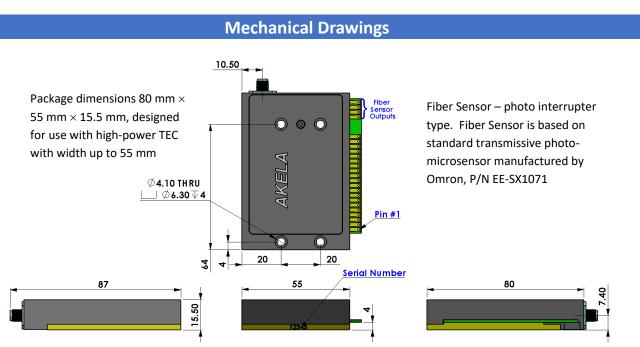
Current, A

Voltage, V

Electro-optical characteristics



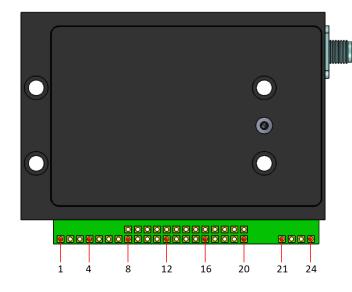
Dimensions and Pinout



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Pinout



Pin #	Function
1	Red pointer (+)
2	Red pointer (-)
3-7	Not used
8	Laser diode (+)
9-10	Not used
11 & 12	Thermistor outputs
13	Power monitor photodiode (+)
14-18	Not used
19	Laser diode (-)
20	Power monitor photodiode (-)
21	Fiber Sensor Phototransistor Collector
22	Fiber Sensor Phototransistor Emitter
23	Fiber Sensor LED Cathode
24	Fiber Sensor LED Anode

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Document Revision History

Revision Number	Revision Date	Nature of Revision	Approved by
1	July 6, 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.