ALC-4WL10-00120-FM200.22 QUINTA-T

Overview

Main Features

- **450 nm / 30 mW**
- **520 nm / 30 mW**
- **640 nm / 30 mW**
- **405 nm / 30 mW**
- **200 µm core detachable fiber**
- **Temperature sensor**
- **Internal TEC**

QUINTA-T package

Typical Performance Characteristics

Parameter	Symbol	LD1	LD2	LD3	LD4	Unit
Operating temperature	T	25				°C
Temperature sensor setting	R_T	10.0				kOhm
Operating power ex-fiber	P_{op}	30	30	30	30	mW
Center wavelength	λ	450±4	520±5	640±9	405±10	nm
Spectrum width, $1/e^2$	Δλ	<2	<2	<2	<2	nm
Wavelength-temperature coefficient	Δλ/ΔT	0.05	0.1	0.17	0.05	nm/°C
Threshold current	I_{th}	21	25	46	24	A
Differential efficiency	η_{ext}	0.91	0.54	0.95	1.14	W/A
Operating current	I_{op}	55	85	80	50	mA
Operating voltage	V_{op}	4.9	5.6	2.5	4.8	V
Maximum current (10 seconds)	I_{max}	60	92	85	55	A
Detachable fiber connector		SMA				
Fiber core diameter	D_{fiber}	200				µm
Fiber NA		0.22				
Maximum TEC voltage	V_{TEC}	4.0				V
Maximum TEC current	I_{TEC}	8.0				A

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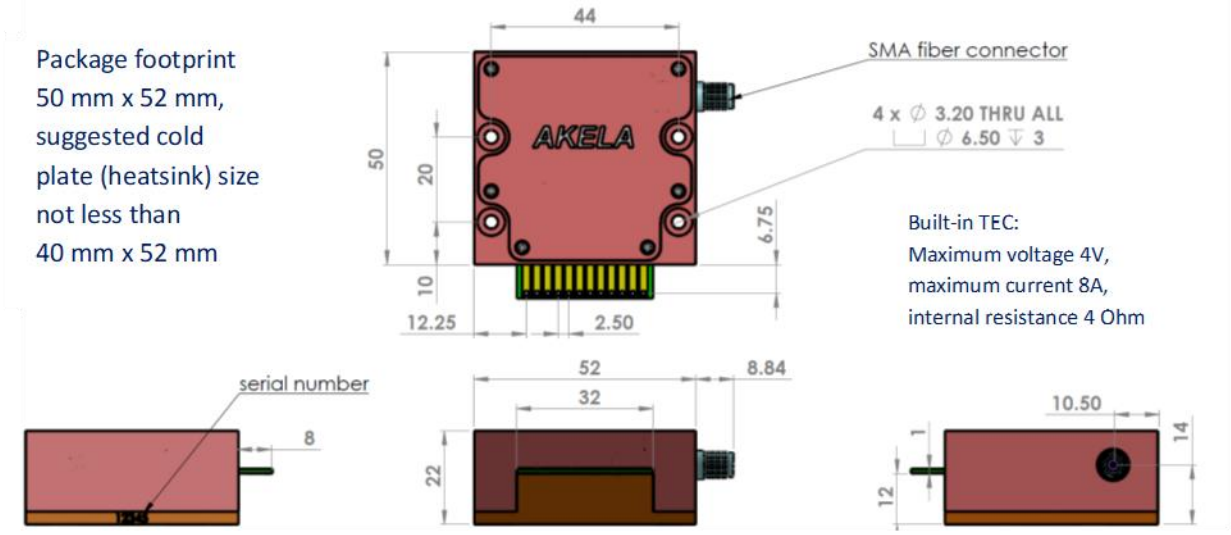
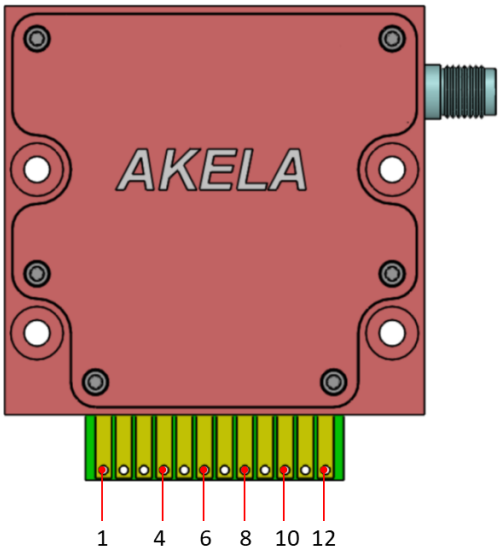
Dimensions and Pinout

Mechanical Drawings



Pinout



Pin #	Function
1	TEC (-)
2	450 nm Laser Diode #1 (+)
3	450 nm Laser Diode #1 (-)
4	520 nm Laser Diode #2 (+)
5	520 nm Laser Diode #2 (-)
6	Thermistor
7	Thermistor
8	640 nm Laser Diode #3 (+)
9	640 nm Laser Diode #3 (-)
10	405 nm Laser Diode #4 (+)
11	405 nm Laser Diode #4 (-)
12	TEC (+)

Document Revision History

Revision Number	Revision Date	Nature of Revision	Approved by
1	September 27, 2024	Specs in new format	*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.