

# ALC-0915-34000-FM200.22 QUINTA

### **Overview**

#### **Main Features**

- 915 nm / 34 W •
- 200 µm core fiber
- Detachable fiber
- Compact footprint
- Fiber sensor (optional)
- Temperature sensor
- Power monitor (optional)
- Visible pointer (optional)

# T<sub>y</sub>

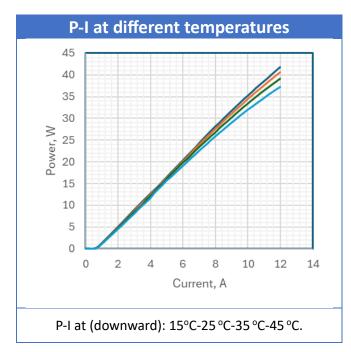
Sypical Performance Characteristics						
Parameter	Symbol	LD	Unit			
Operating temperature	Т	20	°C			
Operating power ex-fiber	P <sub>op</sub>	34	W			
Center wavelength	λ	915±10	nm			
Spectrum width, 1/e <sup>2</sup>	Δλ	<7	nm			
Wavelength-temperature coefficient	Δλ/ΔΤ	0.3	nm/ºC			
Linearized wavelength-current	Δλ/Δι	0.6	nm/A			
Threshold current	I <sub>th</sub>	0.65	А			
Differential efficiency	$\eta_{\text{ext}}$	3.6	W/A			
Operating current	I <sub>op</sub>	10.0	А			
Operating voltage	V <sub>op</sub>	7.4	V			
Maximum current (10 seconds)	I <sub>max</sub>	12.0	А			
Power monitor photodiode current	I <sub>mon</sub>	>0.05	mA			
Detachable fiber connector		SMA				
Fiber core diameter	D <sub>fiber</sub>	200	μm			
Fiber NA		0.22				

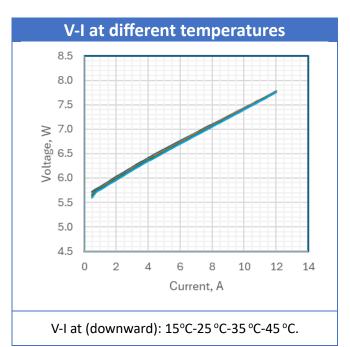
OPTIONAL POINTER: >1mW at 638±5nm, 2.9V operating voltage, typical drive current <30mA



**QUINTA Package** 

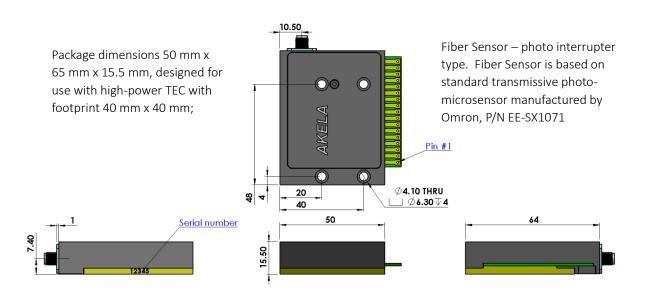
## **Electro-optical characteristics**





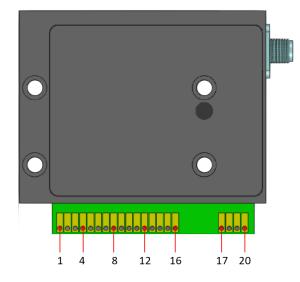
# **Dimensions and Pinout**

#### **Mechanical Drawings**





### Pinout



Pin #	Function
1	Red pointer (+)
2	Red pointer (-)
3	Power monitor photodiode (+)
4 & 5	Laser Diode (+)
6	Power monitor photodiode (-)
7-10	Not used
11 & 12	Thermistor outputs
13	Not used
14 & 15	Laser Diode (-)
16	Not used
17	Fiber Sensor Phototransistor Collector
18	Fiber Sensor Phototransistor Emitter
19	Fiber Sensor LED Cathode
20	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.