

# ALC-750-12000-FM365.22 QUINTA

### **Overview**

#### **Main Features**

- 750 nm / 12.0 W
- 365 μm core fiber
- Detachable fiber
- Compact footprint
- Fiber sensor (optional)
- Temperature sensor
- Power monitor (optional)
- Visible pointer (optional)



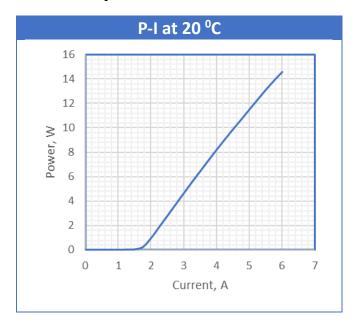
### **Typical Performance Characteristics**

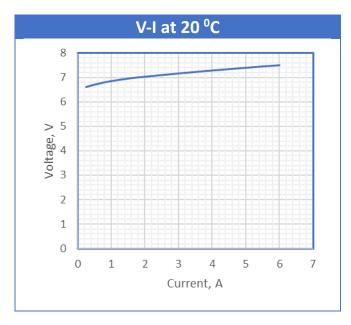
Parameter	Symbol	LD	Unit
Operating temperature	T	20	°C
Operating power ex-fiber	P <sub>op</sub>	12.0	W
Center wavelength	λ	750±7	nm
Spectrum width, 1/e²	Δλ	<6	nm
Wavelength-temperature coefficient	Δλ/ΔΤ	0.26	nm/ºC
Linearized wavelength-current	Δλ/ΔΙ	0.74	nm/l
Threshold current	I <sub>th</sub>	1.75	Α
Differential efficiency	$\eta_{ext}$	3.45	W/A
Operating current	l <sub>op</sub>	5.25	Α
Operating voltage	$V_{op}$	7.5	V
Maximum current (10 seconds)	I <sub>max</sub>	6.0	Α
Power monitor photodiode	I <sub>mon</sub>	>0.05	mA
Detachable fiber connector		SMA	
Fiber core diameter	D <sub>fiber</sub>	365	μm
Fiber NA		0.22	

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



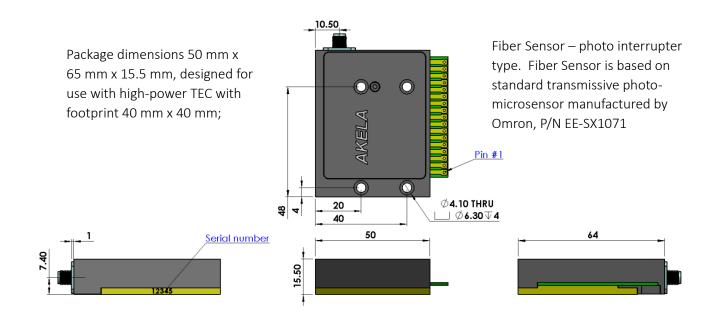
## **Electro-optical characteristics**





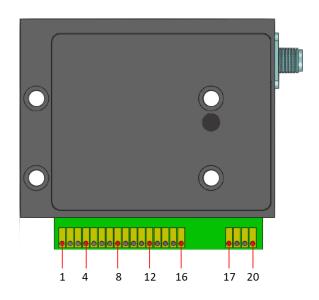
### **Dimensions and Pinout**

#### **Mechanical Drawings**



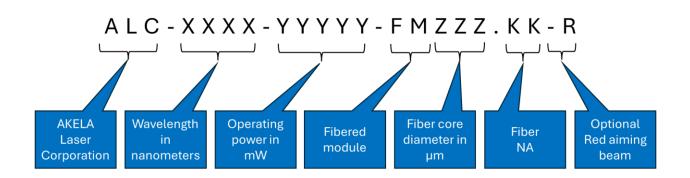


#### **Pinout**



Pin #	Function
1	Red pointer (+) optional
2	Red pointer (-) optional
3 – 8	Not used
9 and 10	Laser Diode (+)
11 and 12	Thermistor outputs
13	Power Monitor PD (+)
14 and 15	Laser Diode (-)
16	Power Monitor PD (-)
17	Fiber Sensor Phototransistor Collector
18	Fiber Sensor Phototransistor Emitter
19	Fiber Sensor LED Cathode
20	Fiber Sensor LED Anode

#### **Part Number Notation**





## **Document Revision History**

Revision	Revision	Nature of	Approved
Number	Date	Revision	by
1	April 9, 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.