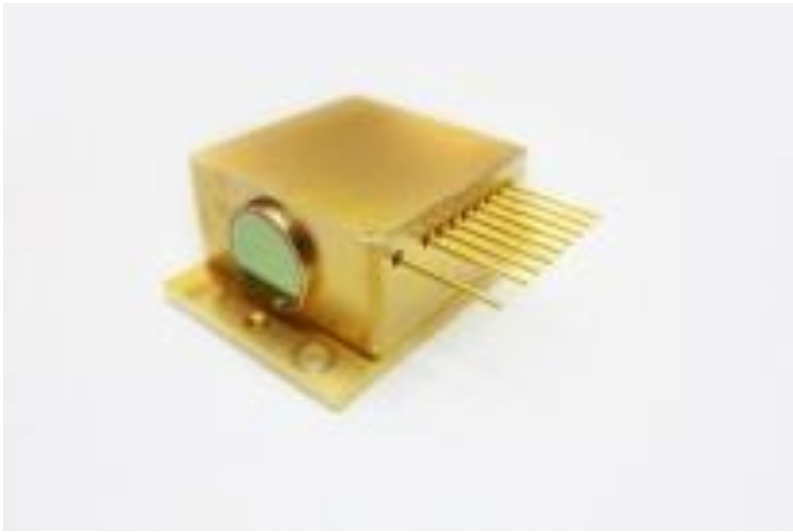
HIGH POWER LASER

ALC-1470-4500-HHL



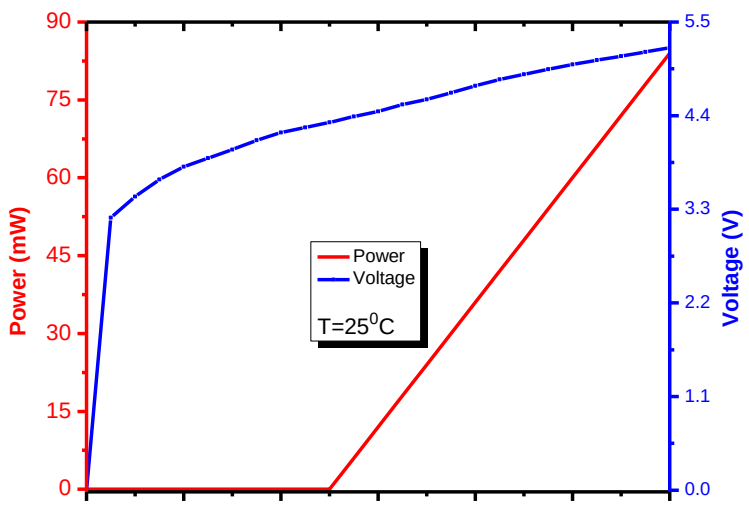
The High Heat Load (HHL) packaged diode laser is an ideal component for quick prototyping and laboratory setups. It features a built-in thermo-electric cooler (TEC), thermistor for the temperature measurements and a power monitor. The output beam is precisely collimated and circularized.

Applications

- Research
- Medical

Specifications

Optical Parameters	Units	
Center Wavelength	nm	375
Wavelength Tolerance	nm	±5
Spectral Width (FWHM)	nm	0.7
Wavelength Temp. Coefficient	nm/°C	0.07
Output Power	mW	>70
Operating Current	mA	110
Operating Voltage	V	<5.4
Threshold Current	mA	50
Beam divergence fast axis, FWHM	mrad	<1
Beam divergence slow axis, FWHM	mrad	<1



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AKELA Laser Corporation

1095 Cranbury South River Road, Suite 14, Jamesburg, NJ 08831, USA

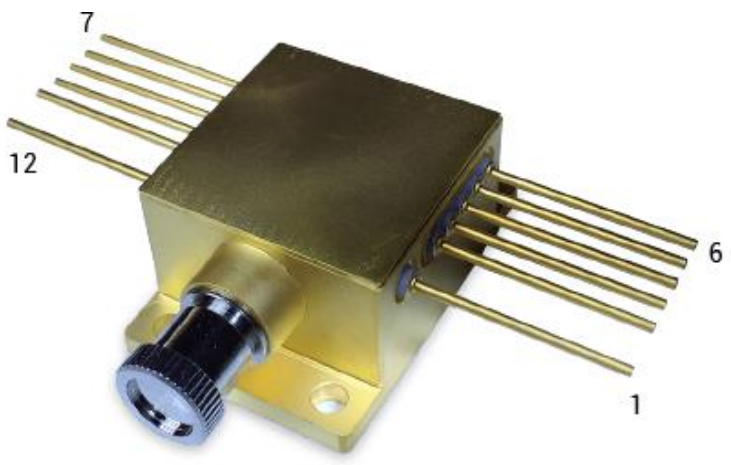
Phone: (732) 305-7105 e-mail: info@AKELALaser.com web: www.AKELALaser.com

HIGH POWER DIODE LASER MODULE WITH FIBER OUTPUT

ALC-405-0300-FM200.22

Features

- Compact size
- Detachable 200µm SMA-fiber
- Thermistor
- Power monitor



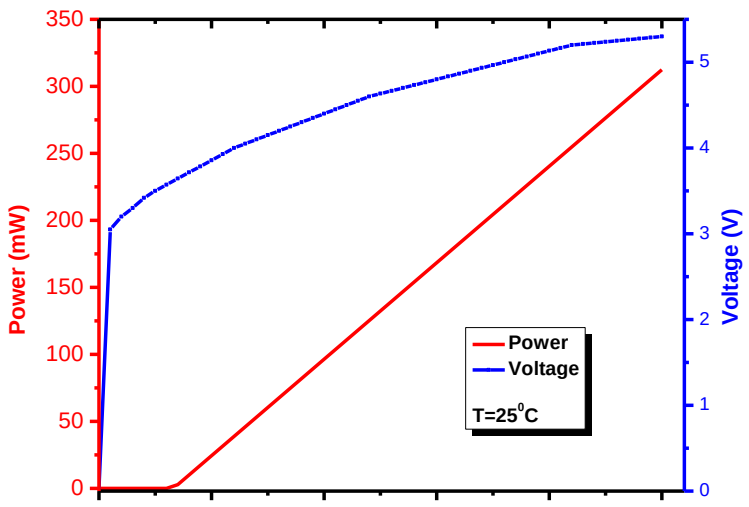
Applications

- Medical
- Solid State Laser Pumping

Specifications

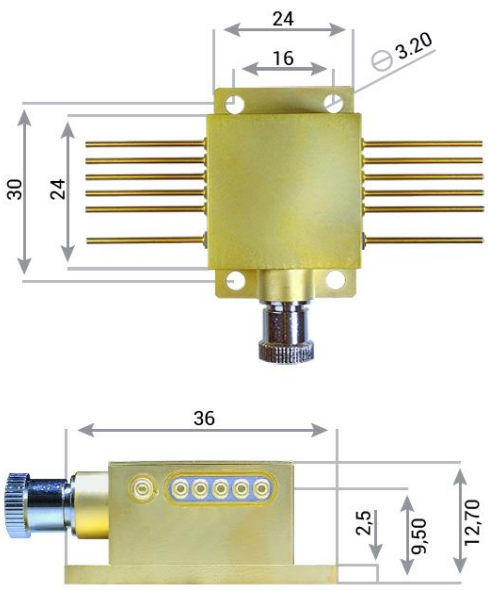
Optical Parameters	Units	
Center Wavelength	nm	405
Wavelength Tolerance	nm	±5
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.07
Output Power	mW	>300
Operating Current	mA	250
Operating Voltage	V	<5.3
Threshold Current	mA	33

Fiber Parameters		
Fiber Core Diameter	µm	200
Numerical Aperture		0.22
Fiber Connector		SMA-905



Pin-Out

1. TEC (+)
2. Thermistor
3. Not connected
4. Laser Diode Anode
5. Laser Diode Anode
6. Power monitor (+)
7. Power monitor (-)
8. Laser Diode Cathode
9. Laser Diode Cathode
10. Not connected
11. Thermistor
12. TEC (-)



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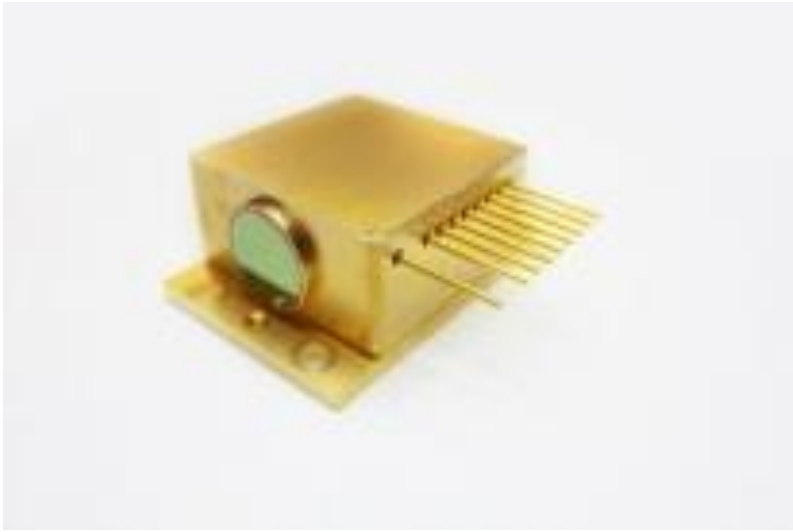
HIGH POWER DIODE LASER

ALC-405-0300-HHL

The High Heat Load (HHL) packaged diode laser is an ideal component for quick prototyping and laboratory setups. It features a built-in thermo-electric cooler (TEC), thermistor for the temperature measurements and a power monitor. The output beam is precisely collimated and circularized.

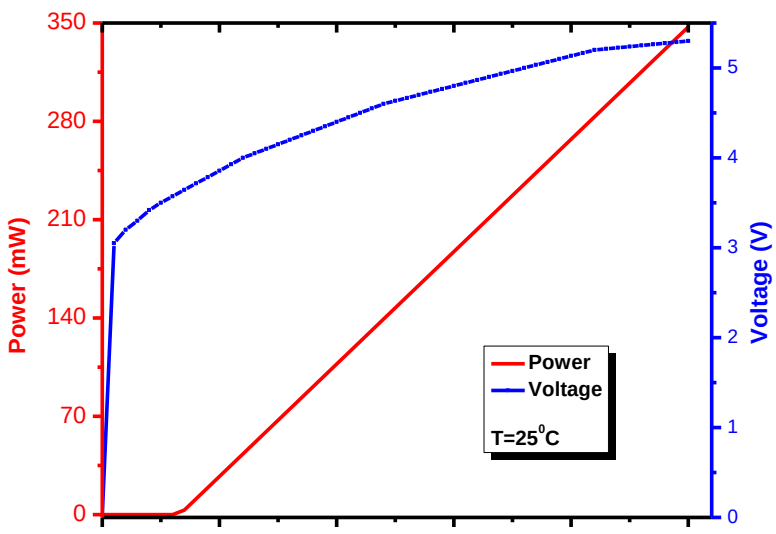


Applications

- Research
- Medical

Specifications

Optical Parameters	Units	
Center Wavelength	nm	405
Wavelength Tolerance	nm	±5
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.07
Output Power	mW	>300
Operating Current	mA	225
Operating Voltage	V	<5.3
Threshold Current	mA	33
Beam divergence fast axis, FWHM	mrad	<1
Beam divergence slow axis, FWHM	mrad	<1



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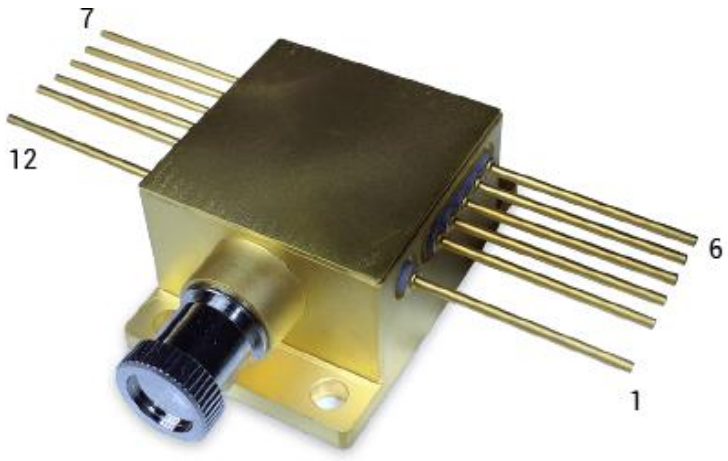
HIGH POWER DIODE LASER MODULE WITH FIBER OUTPUT

ALC-415-0130-FM200.22

Features

- Compact size
- Detachable 200µm SMA-fiber
- Thermistor
- Power monitor



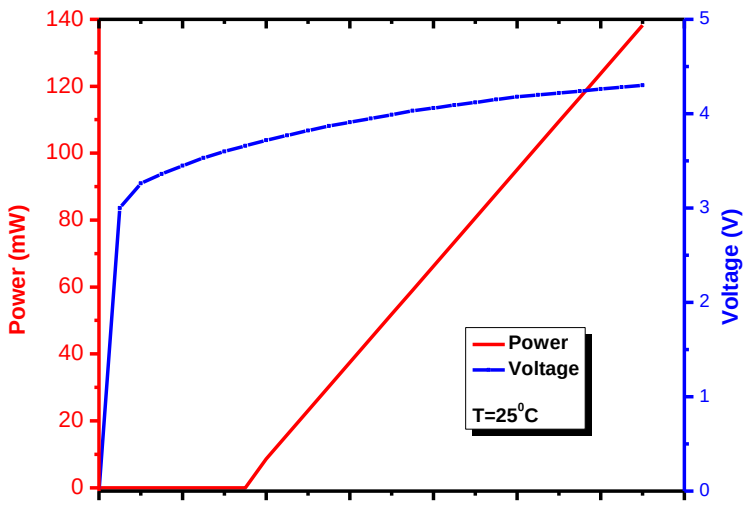
Applications

- Medical
- Solid State Laser Pumping

Specifications

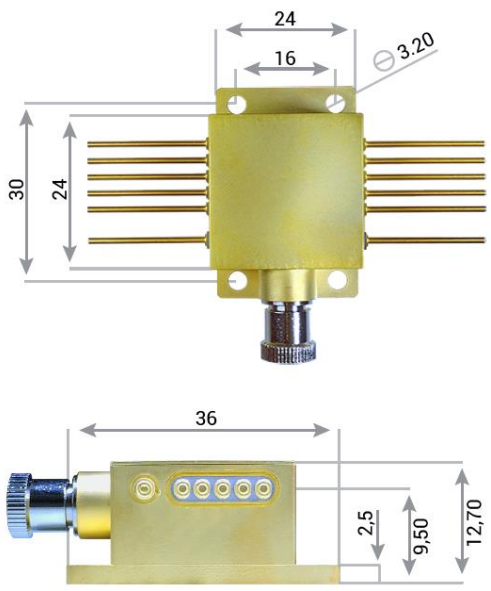
Optical Parameters	Units	
Center Wavelength	nm	415
Wavelength Tolerance	nm	±5
Spectral Width (FWHM)	nm	1.3
Wavelength Temp. Coefficient	nm/°C	0.07
Output Power	mW	>130
Operating Current	mA	130
Operating Voltage	V	<4.5
Threshold Current	mA	34

Fiber Parameters		
Fiber Core Diameter	µm	200
Numerical Aperture		0.22
Fiber Connector		SMA-905



Pin-Out

1. TEC (+)
2. Thermistor
3. Not connected
4. Laser Diode Anode
5. Laser Diode Anode
6. Power monitor (+)
7. Power monitor (-)
8. Laser Diode Cathode
9. Laser Diode Cathode
10. Not connected
11. Thermistor
12. TEC (-)



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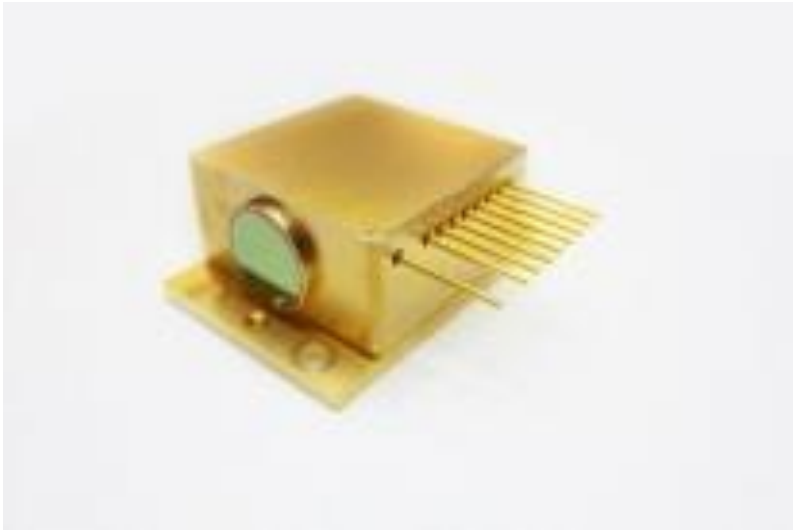
HIGH POWER DIODE LASER

ALC-415-0150-HHL

The High Heat Load (HHL) packaged diode laser is an ideal component for quick prototyping and laboratory setups. It features a built-in thermo-electric cooler (TEC), thermistor for the temperature measurements and a power monitor. The output beam is precisely collimated and circularized.

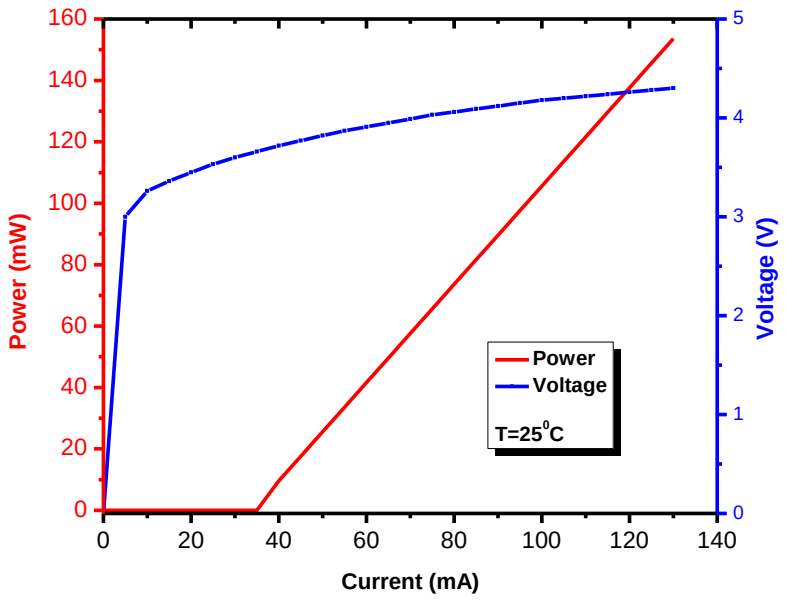


Applications

- Research
- Medical

Specifications

Optical Parameters	Units	
Center Wavelength	nm	415
Wavelength Tolerance	nm	±5
Spectral Width (FWHM)	nm	1.3
Wavelength Temp. Coefficient	nm/°C	0.07
Output Power	mW	>150
Operating Current	mA	130
Operating Voltage	V	<4.5
Threshold Current	mA	34
Beam divergence fast axis, FWHM	mrad	<1
Beam divergence slow axis, FWHM	mrad	<1



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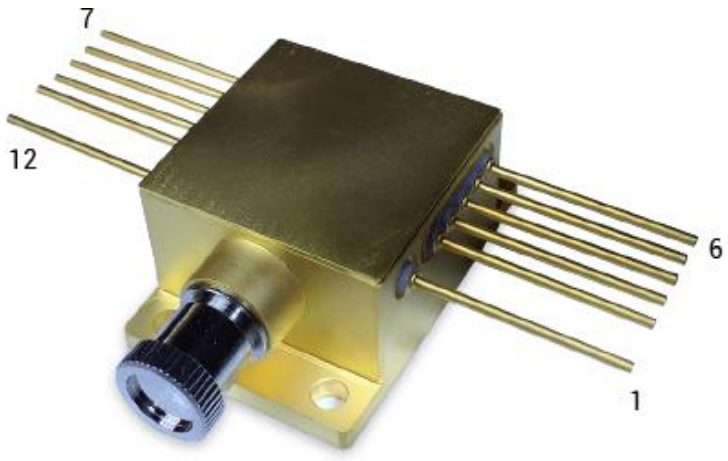
HIGH POWER DIODE LASER MODULE WITH FIBER OUTPUT

ALC-450-1300-FM200.22

Features

- Compact size
- Detachable 200µm SMA-fiber
- Thermistor
- Power monitor



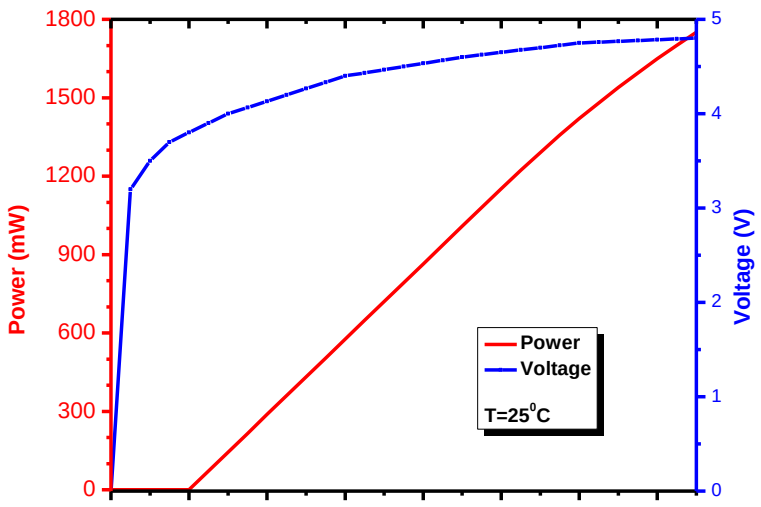
Applications

- Medical
- Solid State Laser Pumping

Specifications

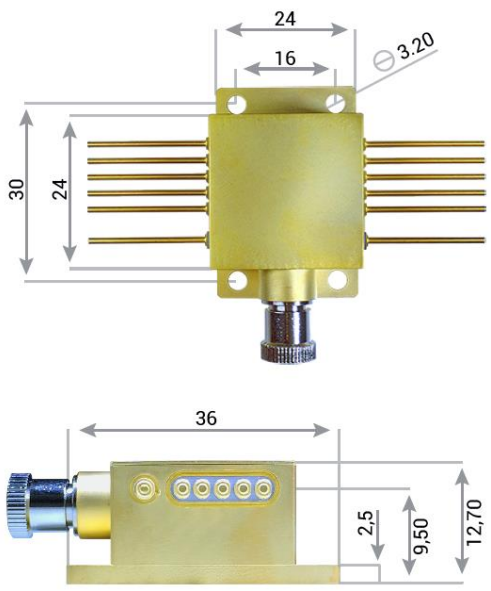
Optical Parameters	Units	
Center Wavelength	nm	450
Wavelength Tolerance	nm	±10
Spectral Width (FWHM)	nm	1.5
Wavelength Temp. Coefficient	nm/°C	0.06
Output Power	W	>1.3
Operating Current	mA	1200
Operating Voltage	V	<4.8
Threshold Current	mA	200

Fiber Parameters		
Fiber Core Diameter	µm	200
Numerical Aperture		0.22
Fiber Connector		SMA-905



Pin-Out

1. TEC (+)
2. Thermistor
3. Not connected
4. Laser Diode Anode
5. Laser Diode Anode
6. Power monitor (+)
7. Power monitor (-)
8. Laser Diode Cathode
9. Laser Diode Cathode
10. Not connected
11. Thermistor
12. TEC (-)



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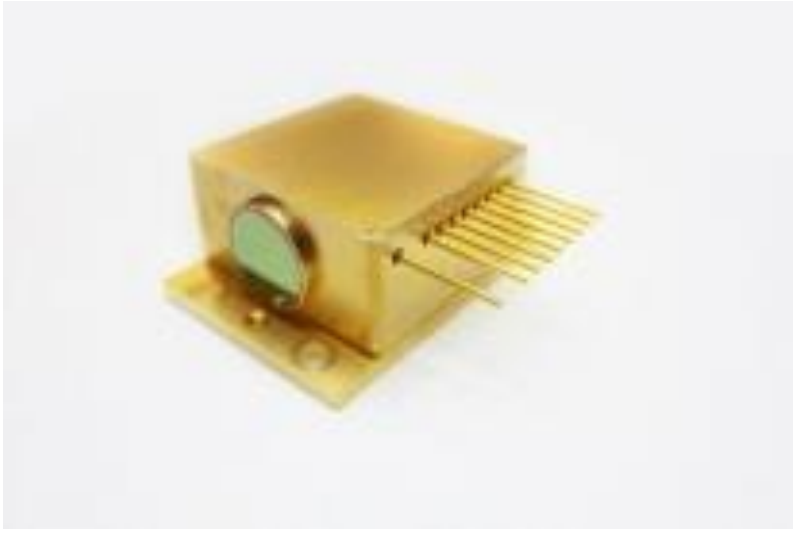
HIGH POWER DIODE LASER

ALC-450-1500-HHL

The High Heat Load (HHL) packaged diode laser is an ideal component for quick prototyping and laboratory setups. It features a built-in thermo-electric cooler (TEC), thermistor for the temperature measurements and a power monitor. The output beam is precisely collimated and circularized.

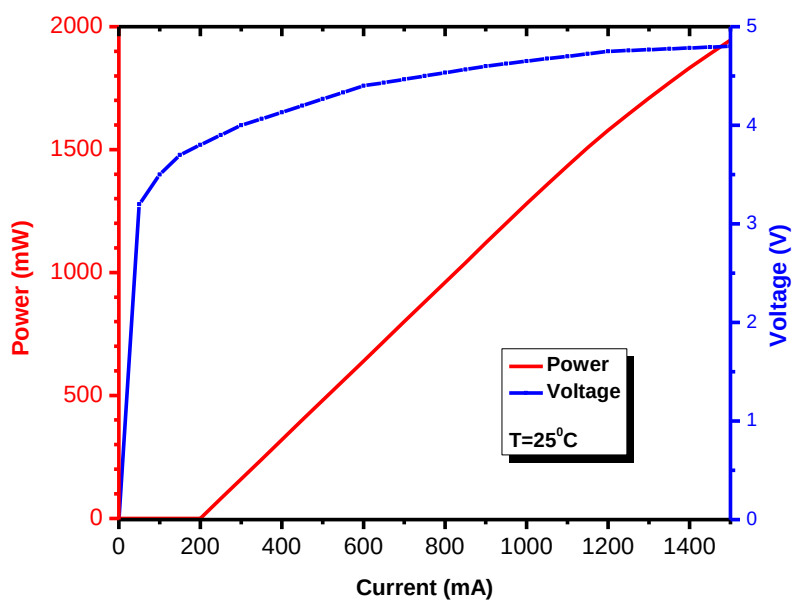


Applications

- Research
- Medical

Specifications

Optical Parameters	Units	
Center Wavelength	nm	450
Wavelength Tolerance	nm	±10
Spectral Width (FWHM)	nm	1.5
Wavelength Temp. Coefficient	nm/°C	0.06
Output Power	W	>1.5
Operating Current	mA	1200
Operating Voltage	V	<4.8
Threshold Current	mA	200
Beam divergence fast axis, FWHM	mrad	<1
Beam divergence slow axis, FWHM	mrad	<1



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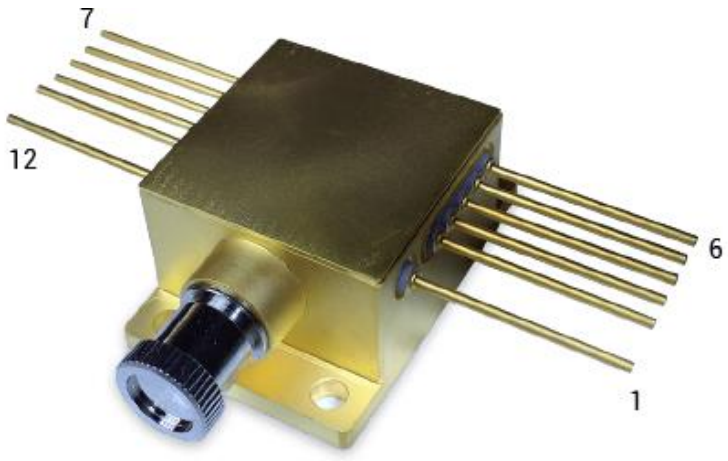
HIGH POWER DIODE LASER MODULE WITH FIBER OUTPUT

ALC-488-0200-FM200.22

Features

- Compact size
- Detachable 200µm SMA-fiber
- Thermistor
- Power monitor



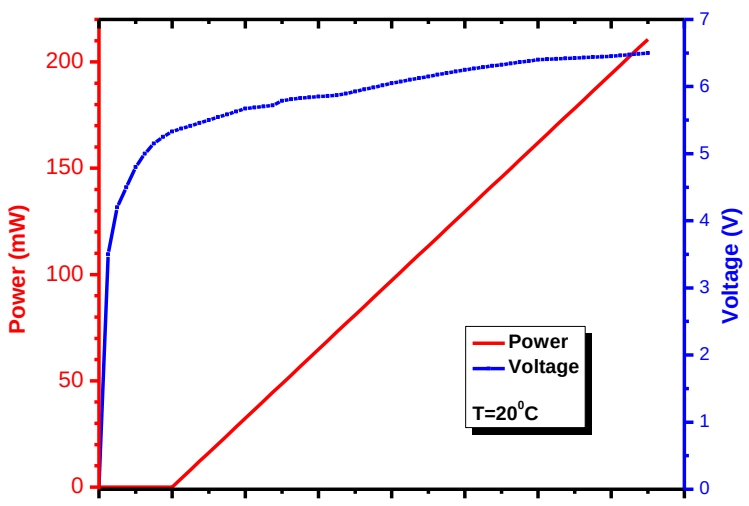
Applications

- Medical
- Solid State Laser Pumping

Specifications

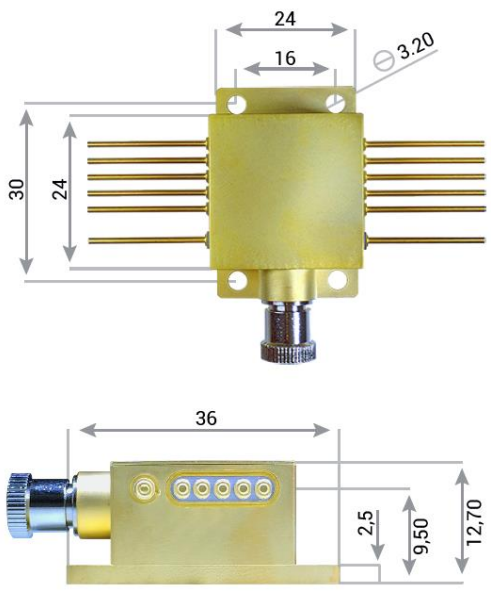
Optical Parameters	Units	
Center Wavelength	nm	488
Wavelength Tolerance	nm	±5
Spectral Width (FWHM)	nm	3
Wavelength Temp. Coefficient	nm/°C	0.03
Output Power	mW	>200
Operating Current	mA	300
Operating Voltage	V	<6.5
Threshold Current	mA	40

Fiber Parameters		
Fiber Core Diameter	µm	200
Numerical Aperture		0.22
Fiber Connector		SMA-905



Pin-Out

1. TEC (+)
2. Thermistor
3. Not connected
4. Laser Diode Anode
5. Laser Diode Anode
6. Power monitor (+)
7. Power monitor (-)
8. Laser Diode Cathode
9. Laser Diode Cathode
10. Not connected
11. Thermistor
12. TEC (-)



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HIGH POWER DIODE LASER

ALC-488-0200-HHL

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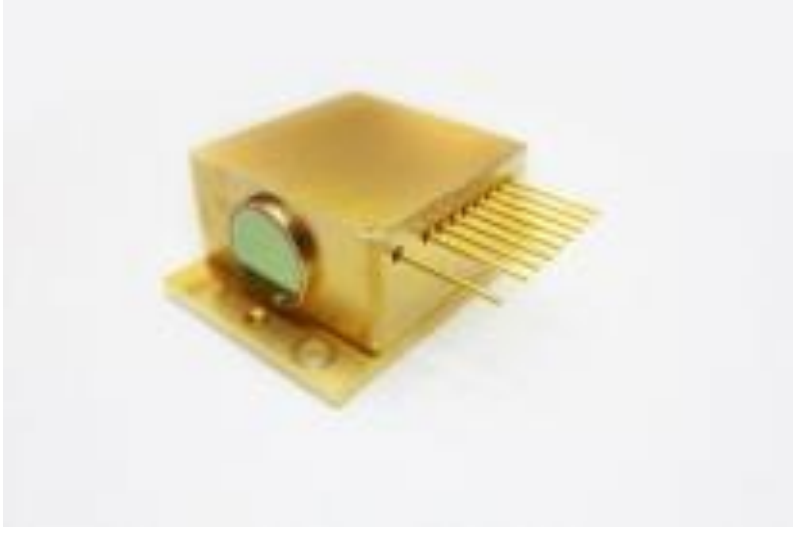
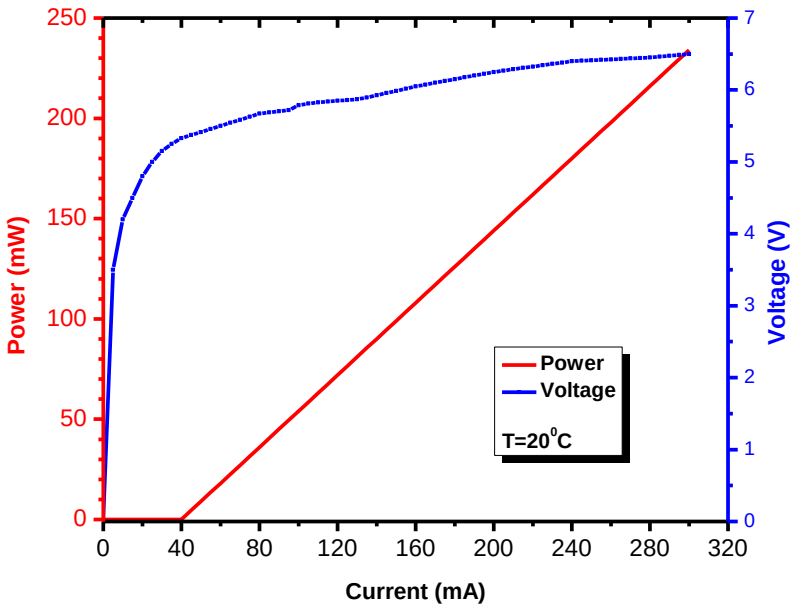


Applications

- Research
- Medical

Specifications

Optical Parameters	Units	
Center Wavelength	nm	448
Wavelength Tolerance	nm	±5
Spectral Width (FWHM)	nm	3
Wavelength Temp. Coefficient	nm/°C	0.03
Output Power	mW	>200
Operating Current	mA	300
Operating Voltage	V	<6.5
Threshold Current	mA	40
Beam divergence fast axis, FWHM	mrad	<1
Beam divergence slow axis, FWHM	mrad	<1



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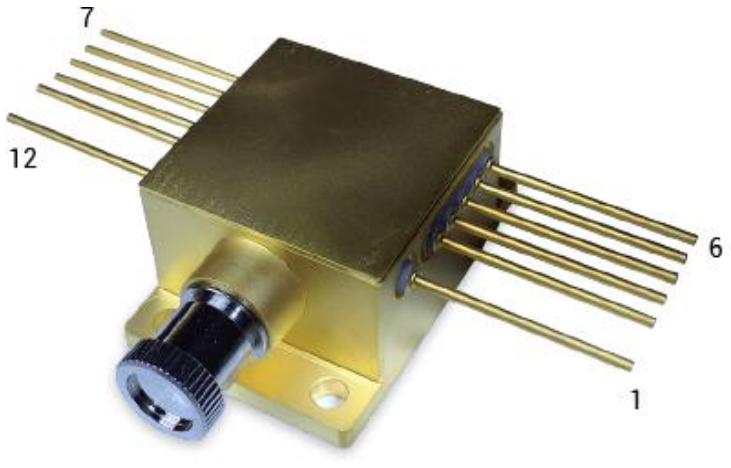
HIGH POWER DIODE LASER MODULE WITH FIBER OUTPUT

ALC-515-0080-FM200.22

Features

- Compact size
- Detachable 200µm SMA-fiber
- Thermistor
- Power monitor

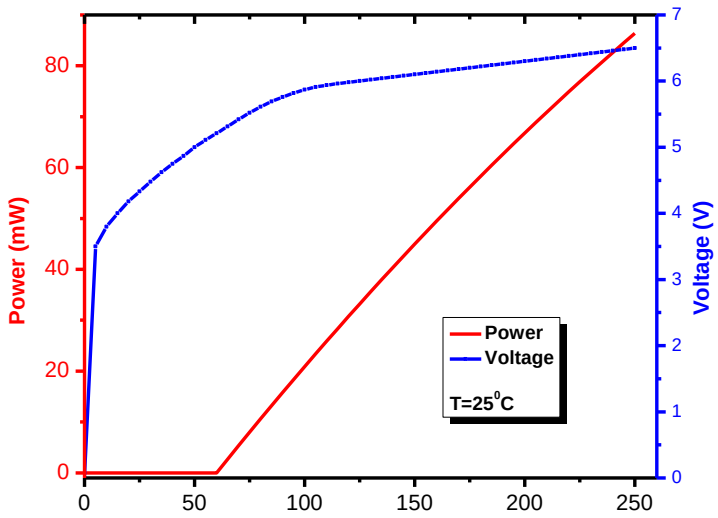


Applications

- Medical
- Solid State Laser Pumping

Specifications

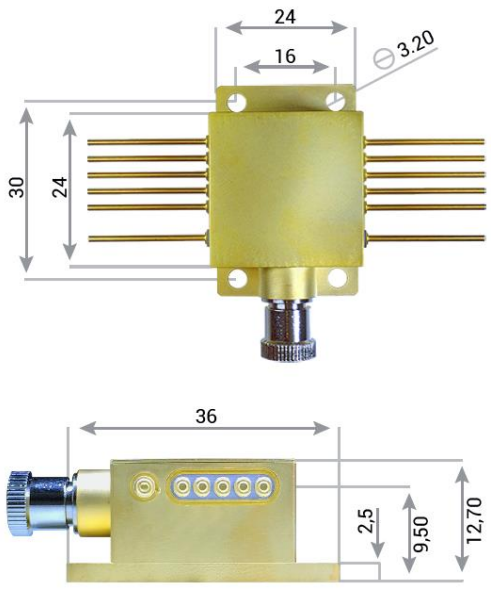
Optical Parameters	Units	
Center Wavelength	nm	515
Wavelength Tolerance	nm	±5
Spectral Width (FWHM)	nm	2.3
Wavelength Temp. Coefficient	nm/°C	0.04
Output Power	mW	>80
Operating Current	mA	250
Operating Voltage	V	<7.0
Threshold Current	mA	60



Fiber Parameters		
Fiber Core Diameter	µm	200
Numerical Aperture		0.22
Fiber Connector		SMA-905

Pin-Out

1. TEC (+)
2. Thermistor
3. Not connected
4. Laser Diode Anode
5. Laser Diode Anode
6. Power monitor (+)
7. Power monitor (-)
8. Laser Diode Cathode
9. Laser Diode Cathode
10. Not connected
11. Thermistor
12. TEC (-)



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HIGH POWER DIODE LASER

ALC-515-0100-HHL

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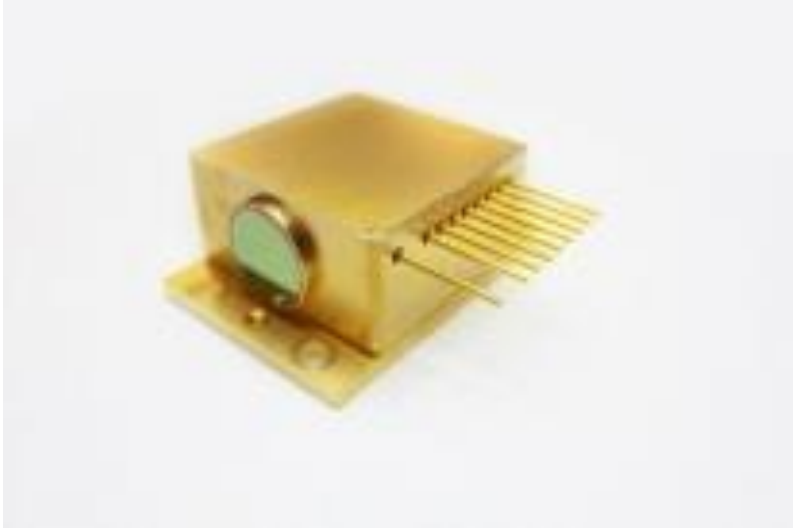
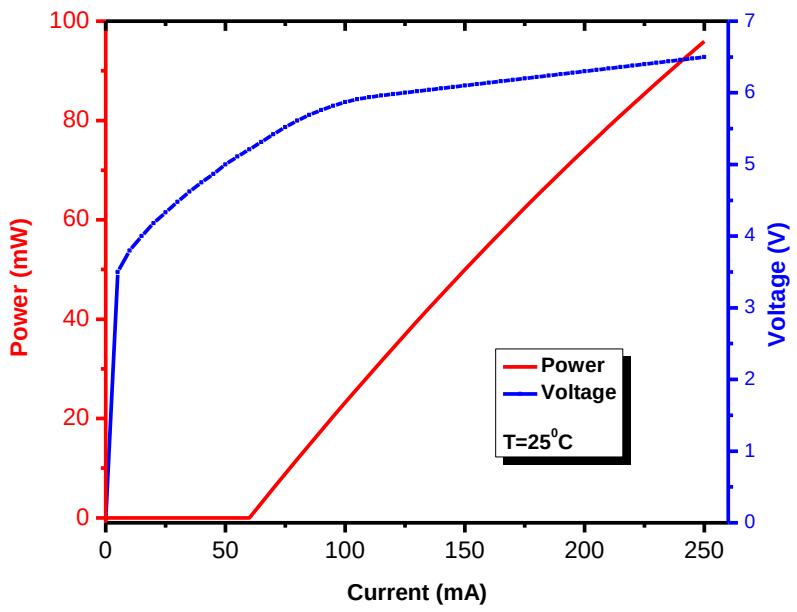


Applications

- Research
- Medical

Specifications

Optical Parameters	Units	
Center Wavelength	nm	515
Wavelength Tolerance	nm	±5
Spectral Width (FWHM)	nm	2.3
Wavelength Temp. Coefficient	nm/°C	0.04
Output Power	mW	>90
Operating Current	mA	250
Operating Voltage	V	<7.0
Threshold Current	mA	60
Beam divergence fast axis, FWHM	mrad	<1
Beam divergence slow axis, FWHM	mrad	<1



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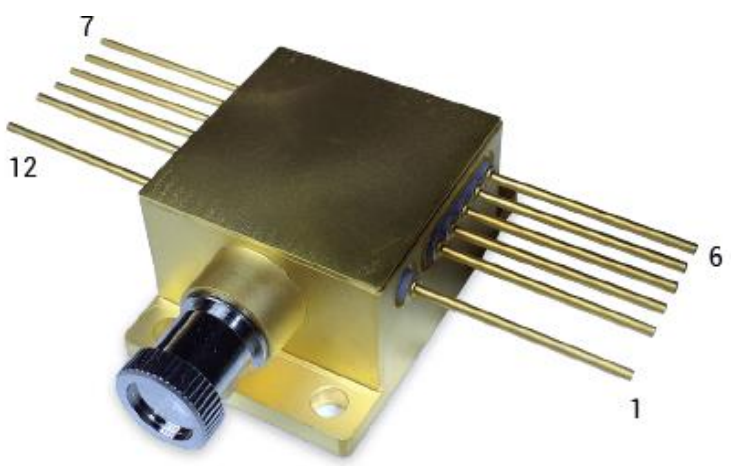
HIGH POWER DIODE LASER MODULE WITH FIBER OUTPUT

ALC-630-0350-FM200.22

Features

- Compact size
- Detachable 200µm SMA-fiber
- Thermistor
- Power monitor

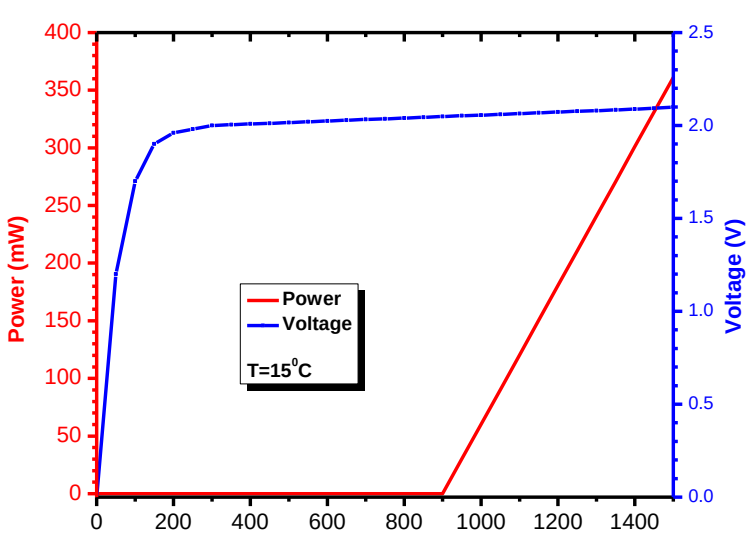


Applications

- Medical
- Solid State Laser Pumping

Specifications

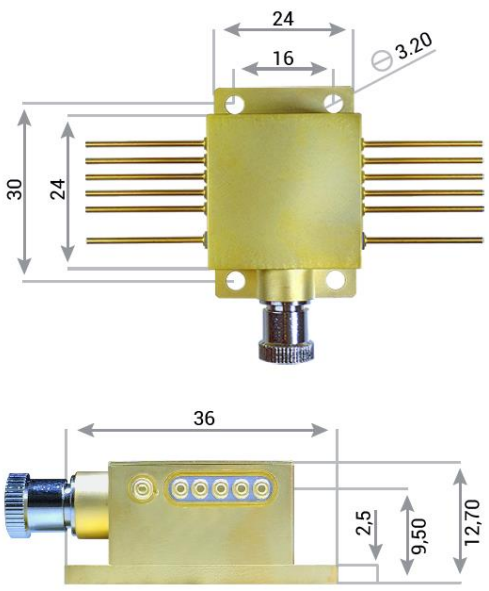
Optical Parameters	Units	
Center Wavelength	nm	630
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.04
Output Power	mW	>350
Operating Current	mA	1500
Operating Voltage	V	<2.2
Threshold Current	mA	900



Fiber Parameters		
Fiber Core Diameter	µm	200
Numerical Aperture		0.22
Fiber Connector		SMA-905

Pin-Out

1. TEC (+)
2. Thermistor
3. Not connected
4. Laser Diode Anode
5. Laser Diode Anode
6. Power monitor (+)
7. Power monitor (-)
8. Laser Diode Cathode
9. Laser Diode Cathode
10. Not connected
11. Thermistor
12. TEC (-)



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AKELA Laser Corporation

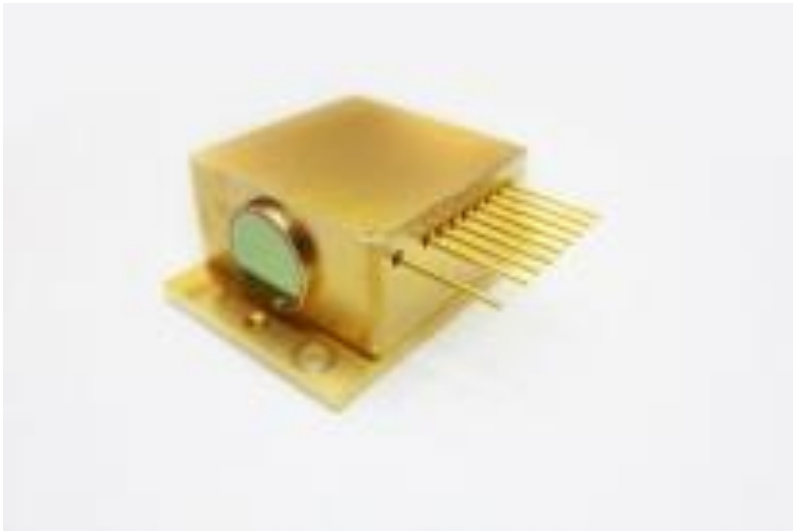
1095 Cranbury South River Road, Suite 14, Jamesburg, NJ 08831, USA

Phone: (732) 305-7105 e-mail: info@AKELALaser.com web: www.AKELALaser.com

HIGH POWER DIODE LASER

ALC-630-0380-HHL

The High Heat Load (HHL) packaged diode laser is an ideal component for quick prototyping and laboratory setups. It features a built-in thermo-electric cooler (TEC), thermistor for the temperature measurements and a power monitor. The output beam is precisely collimated and circularized.

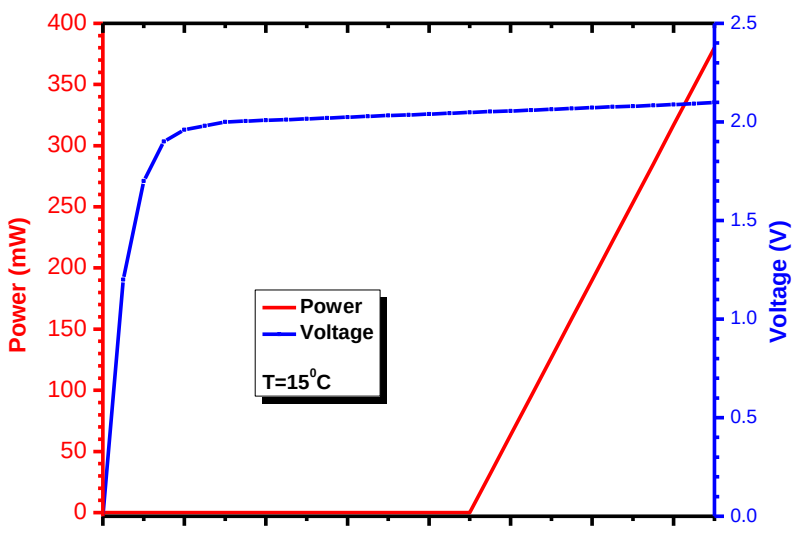


Applications

- Research
- Medical

Specifications

Optical Parameters	Units	
Center Wavelength	nm	630
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.04
Output Power	mW	>380
Operating Current	mA	1500
Operating Voltage	V	<2.2
Threshold Current	mA	900
Beam divergence fast axis, FWHM	mrad	<1
Beam divergence slow axis, FWHM	mrad	<1



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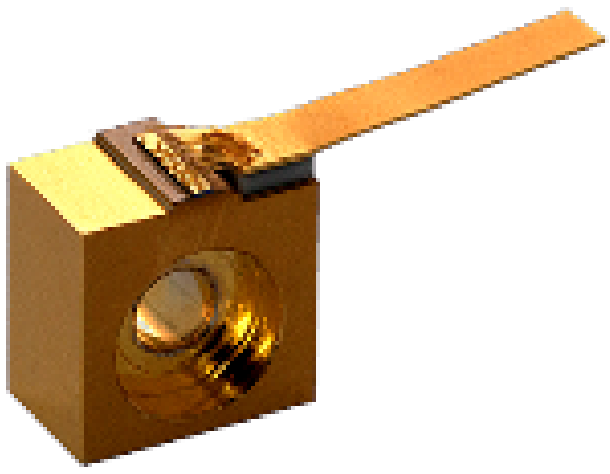
HIGH POWER DIODE LASER

ALC-630-400-CB



The C-mount is an ideal component for quick prototyping and laboratory setups. However, the maximum output power is typically limited by the inherently sub-optimal heat dissipation properties of the C-mount itself.

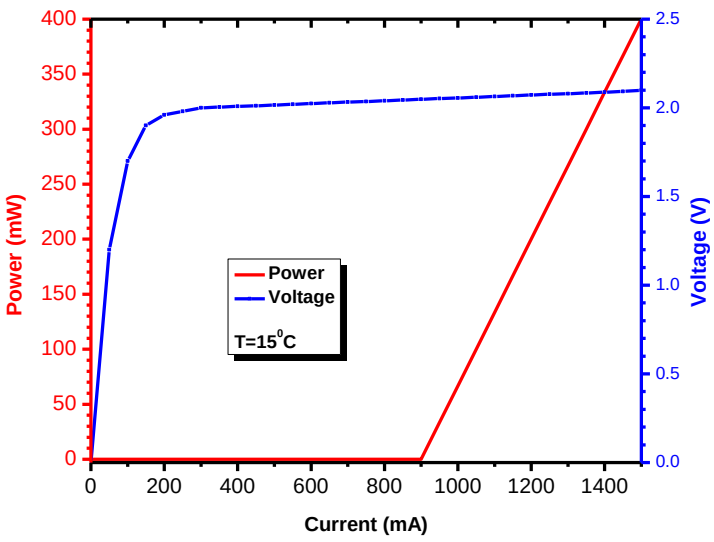
Please contact us to discuss the best package option for your application.

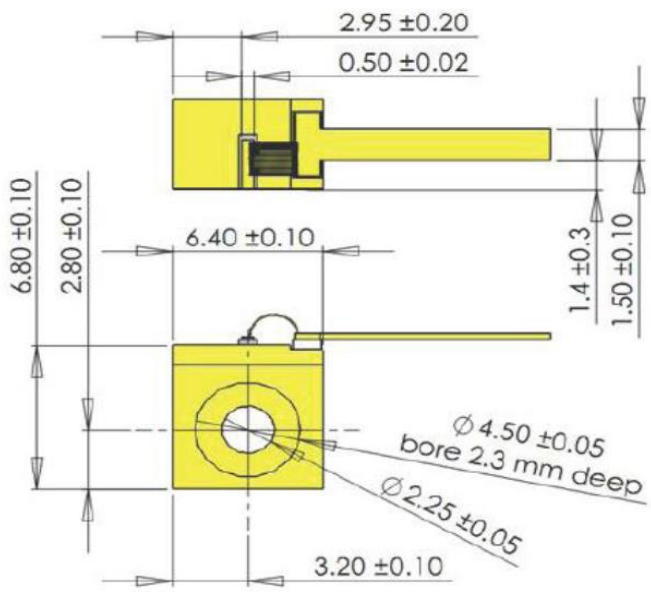
Applications

- Medical
- Solid State Laser Pumping

Specifications

Optical Parameters	Units	
Center Wavelength	nm	630
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.38
Output Power	mW	>400
Operating Current	A	1.5
Operating Voltage	V	<2.2
Threshold Current	A	0.9
Emitter width	µm	100
Beam divergence fast axis, FWHM	degrees	34
Beam divergence slow axis, FWHM	degrees	7





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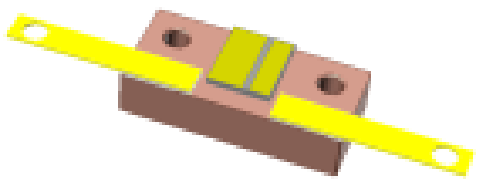
HIGH POWER DIODE LASER

ALC-630-400-FB

The F-mount is an ideal component for quick prototyping and laboratory setups.

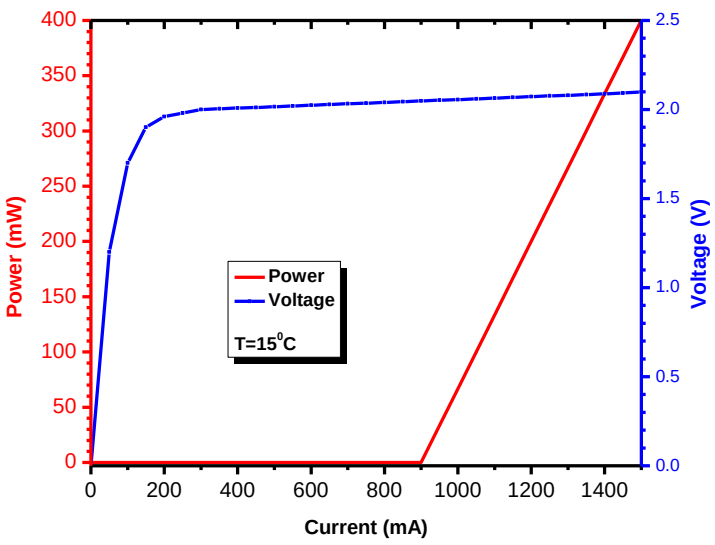


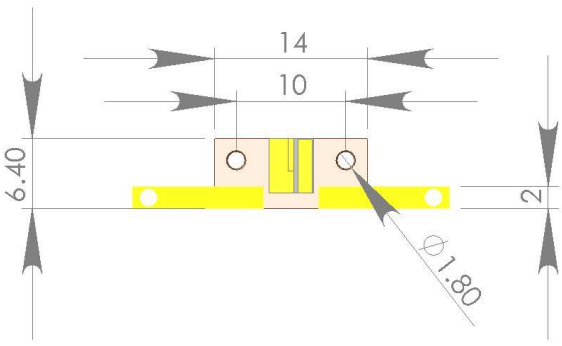
Applications

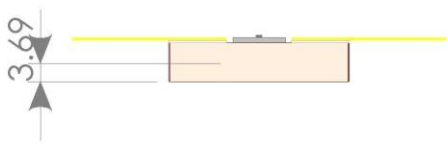
- Medical
- Solid State Laser Pumping

Specifications

Optical Parameters	Units	
Center Wavelength	nm	630
Wavelength Tolerance	nm	±5
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.38
Output Power	mW	>400
Operating Current	A	1.5
Operating Voltage	V	<2.2
Threshold Current	A	0.9
Emitter width	µm	100
Beam divergence fast axis, FWHM	degrees	34
Beam divergence slow axis, FWHM	degrees	7







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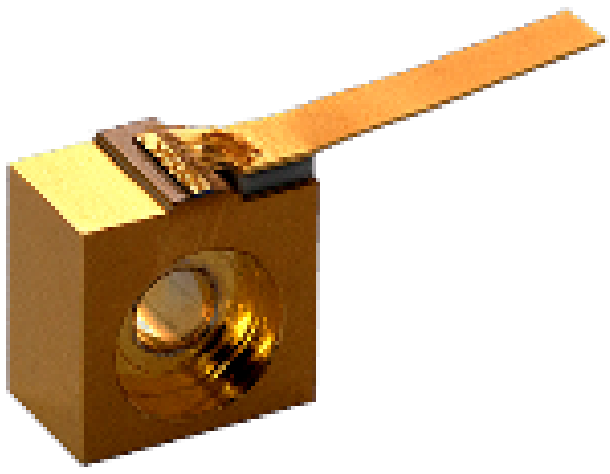
HIGH POWER DIODE LASER

ALC-635-400-CB



The C-mount is an ideal component for quick prototyping and laboratory setups. However, the maximum output power is typically limited by the inherently sub-optimal heat dissipation properties of the C-mount itself.

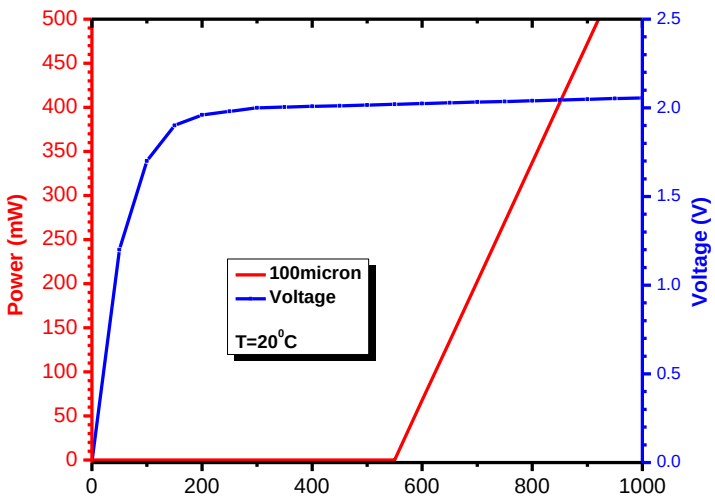
Please contact us to discuss the best package option for your application.

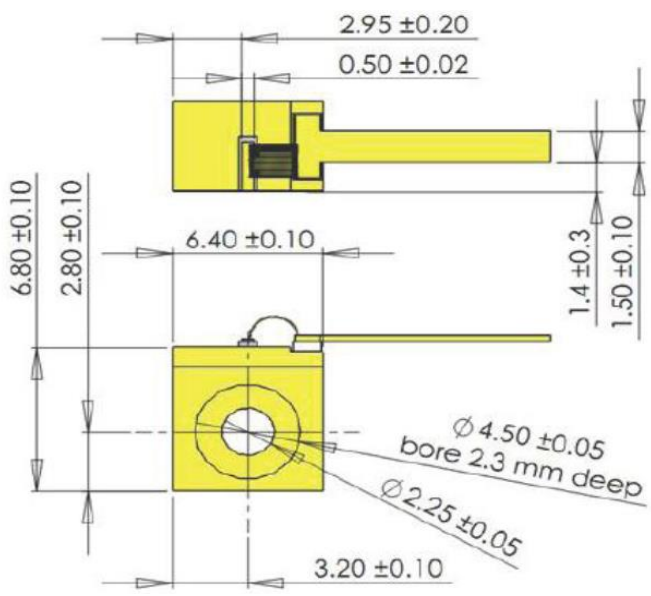
Applications

- Medical
- Solid State Laser Pumping

Specifications

Optical Parameters	Units	
Center Wavelength	nm	635
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.38
Output Power	mW	>400
Operating Current	mA	850
Operating Voltage	V	<2.2
Threshold Current	mA	550
Emitter width	µm	100
Beam divergence fast axis, FWHM	degrees	34
Beam divergence slow axis, FWHM	degrees	7





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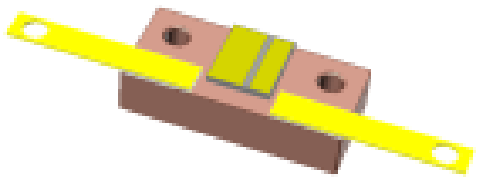
HIGH POWER DIODE LASER

ALC-635-400-FB

The F-mount is an ideal component for quick prototyping and laboratory setups.

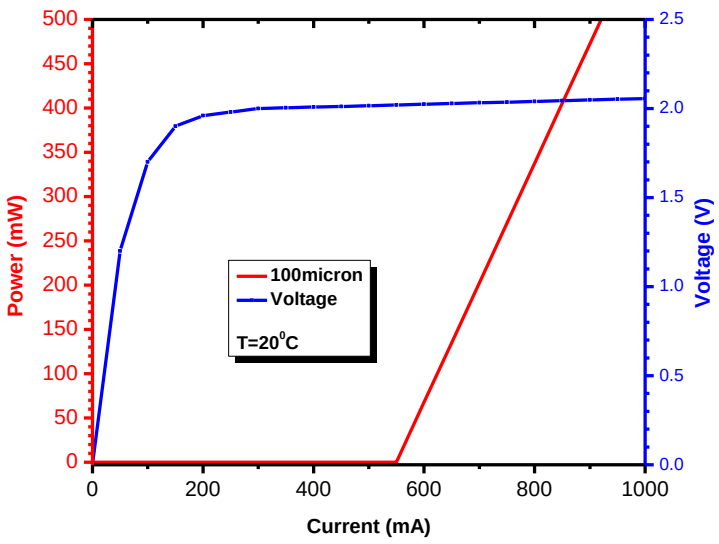


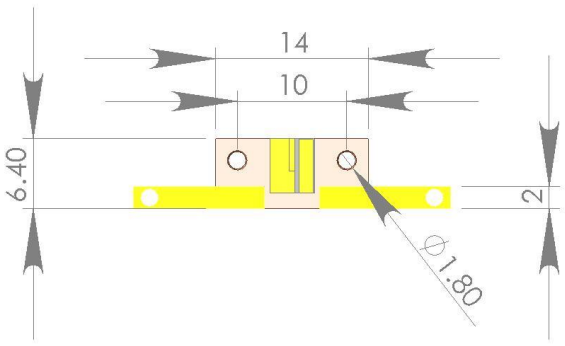
Applications

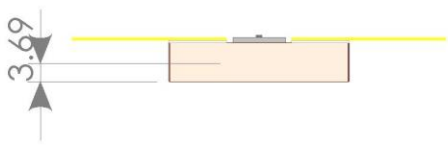
- Medical
- Solid State Laser Pumping

Specifications

Optical Parameters	Units	
Center Wavelength	nm	635
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.38
Output Power	mW	>400
Operating Current	mA	850
Operating Voltage	V	<2.2
Threshold Current	mA	550
Emitter width	µm	100
Beam divergence fast axis, FWHM	degrees	34
Beam divergence slow axis, FWHM	degrees	7







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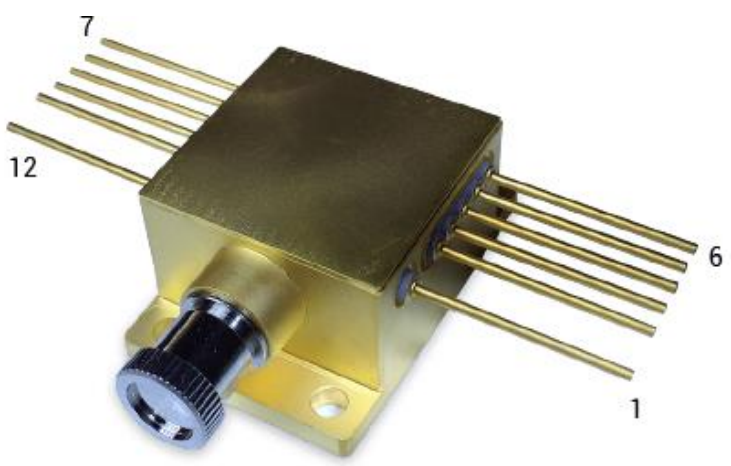
HIGH POWER DIODE LASER MODULE WITH FIBER OUTPUT

ALC-635-0550-FM200.22

Features

- Compact size
- Detachable 200µm SMA-fiber
- Thermistor
- Power monitor



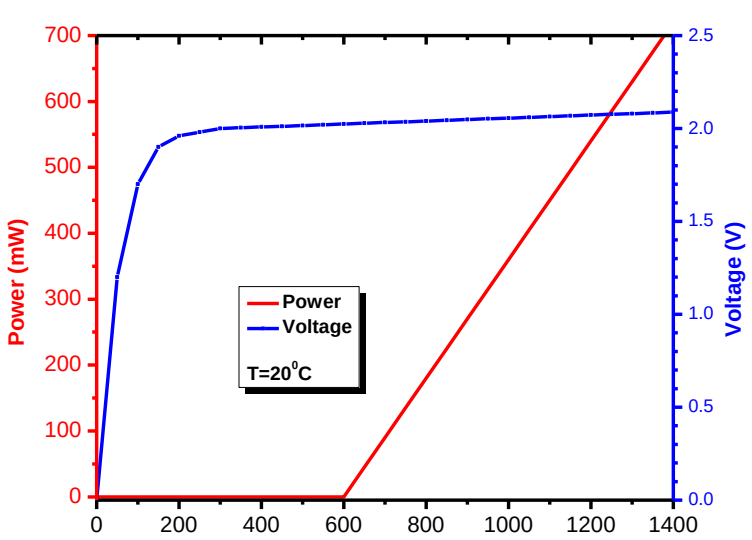
Applications

- Medical
- Printing
- Projection

Specifications

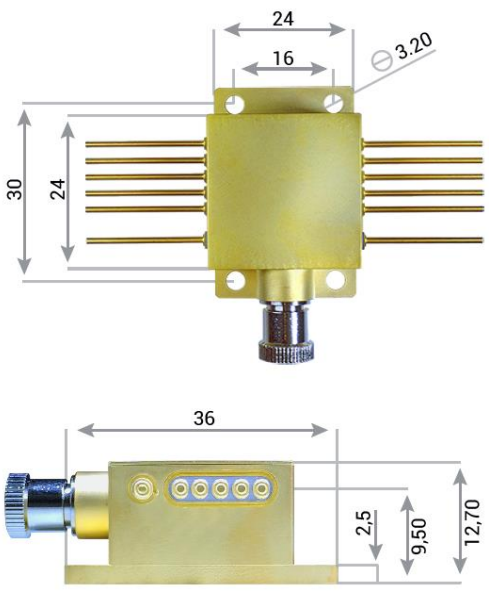
Optical Parameters	Units	
Center Wavelength	nm	635
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.4
Output Power	mW	>550
Operating Current	mA	1200
Operating Voltage	V	<2.2
Threshold Current	mA	600

Fiber Parameters		
Fiber Core Diameter	µm	200
Numerical Aperture		0.22
Fiber Connector		SMA-905



Pin-Out

1. TEC (+)
2. Thermistor
3. Not connected
4. Laser Diode Anode
5. Laser Diode Anode
6. Power monitor (+)
7. Power monitor (-)
8. Laser Diode Cathode
9. Laser Diode Cathode
10. Not connected
11. Thermistor
12. TEC (-)



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HIGH POWER DIODE LASER

ALC-635-600-CB

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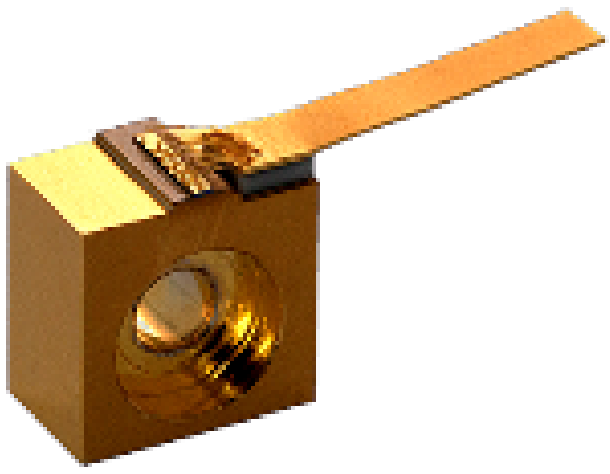
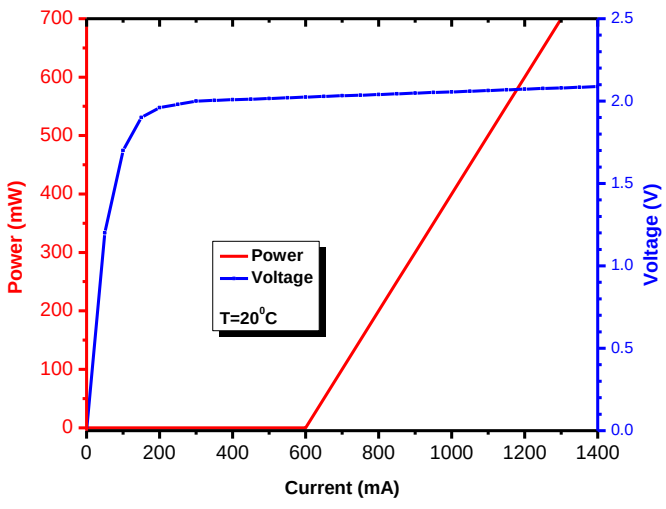


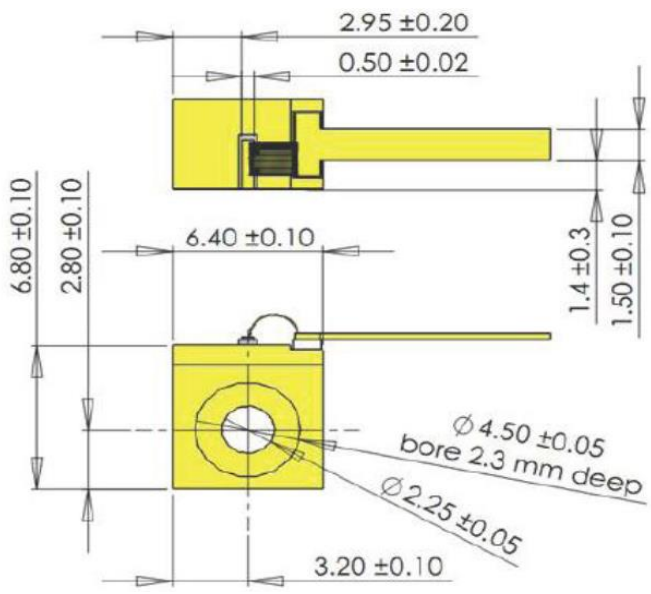
Applications

- Medical
- Solid State Laser Pumping

Specifications

Optical Parameters	Units	
Center Wavelength	nm	635
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.38
Output Power	mW	>600
Operating Current	mA	1200
Operating Voltage	V	<2.2
Threshold Current	mA	600
Emitter width	µm	150
Beam divergence fast axis, FWHM	degrees	34
Beam divergence slow axis, FWHM	degrees	7





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HIGH POWER DIODE LASER

ALC-635-600-FB

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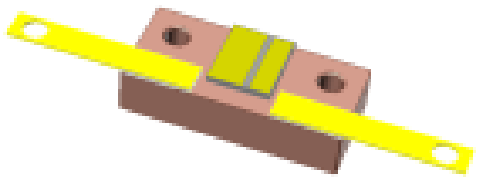
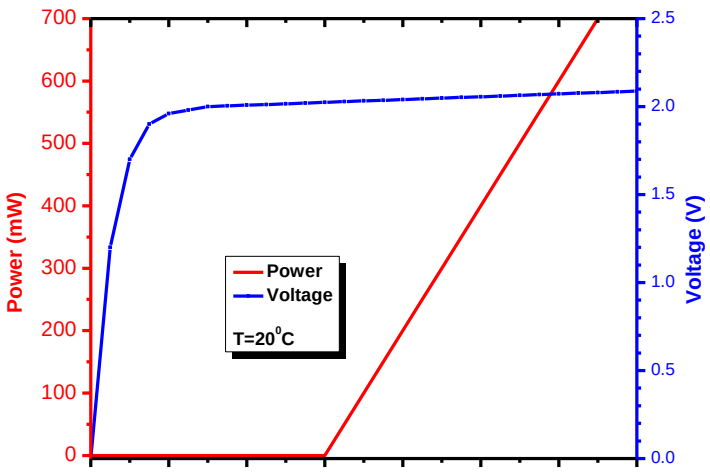


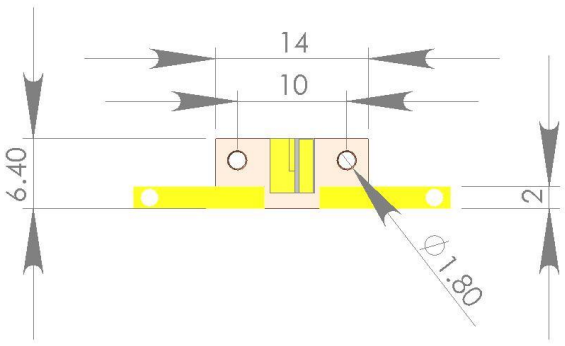
Applications

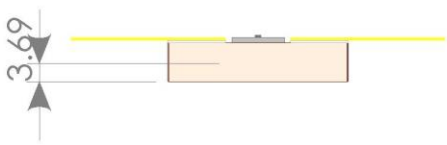
- Medical
- Solid State Laser Pumping

Specifications

Optical Parameters	Units	
Center Wavelength	nm	635
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.38
Output Power	mW	>600
Operating Current	mA	1200
Operating Voltage	V	<2.2
Threshold Current	mA	600
Emitter width	µm	150
Beam divergence fast axis, FWHM	degrees	34
Beam divergence slow axis, FWHM	degrees	7







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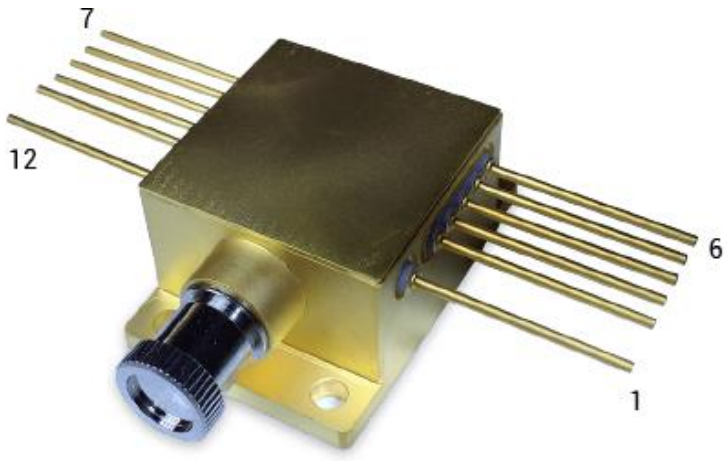
HIGH POWER DIODE LASER MODULE WITH FIBER OUTPUT

ALC-635-0900-FM400.22

Features

- Compact size
- Detachable 400µm SMA-fiber
- Thermistor
- Power monitor



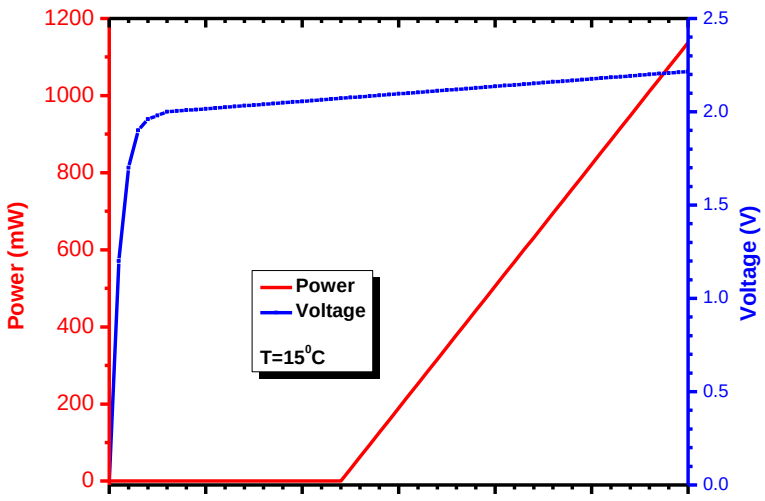
Applications

- Medical
- Printing
- Projection

Specifications

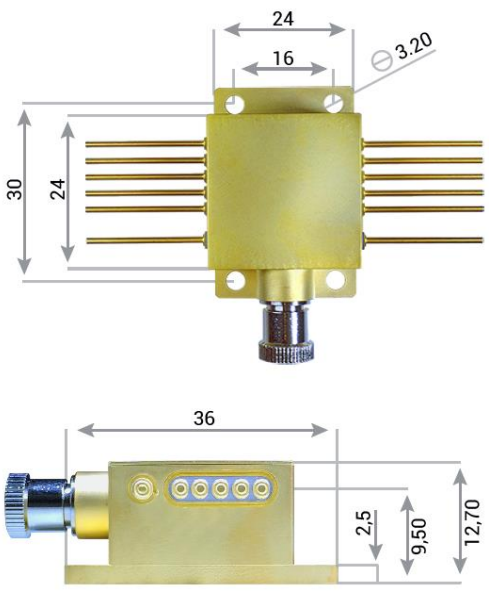
Optical Parameters	Units	
Center Wavelength	nm	635
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.4
Output Power	mW	>900
Operating Current	mA	2800
Operating Voltage	V	<2.2
Threshold Current	mA	1200

Fiber Parameters		
Fiber Core Diameter	µm	400
Numerical Aperture		0.22
Fiber Connector		SMA-905



Pin-Out

1. TEC (+)
2. Thermistor
3. Not connected
4. Laser Diode Anode
5. Laser Diode Anode
6. Power monitor (+)
7. Power monitor (-)
8. Laser Diode Cathode
9. Laser Diode Cathode
10. Not connected
11. Thermistor
12. TEC (-)



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HIGH POWER DIODE LASER

ALC-635-1000-HHL

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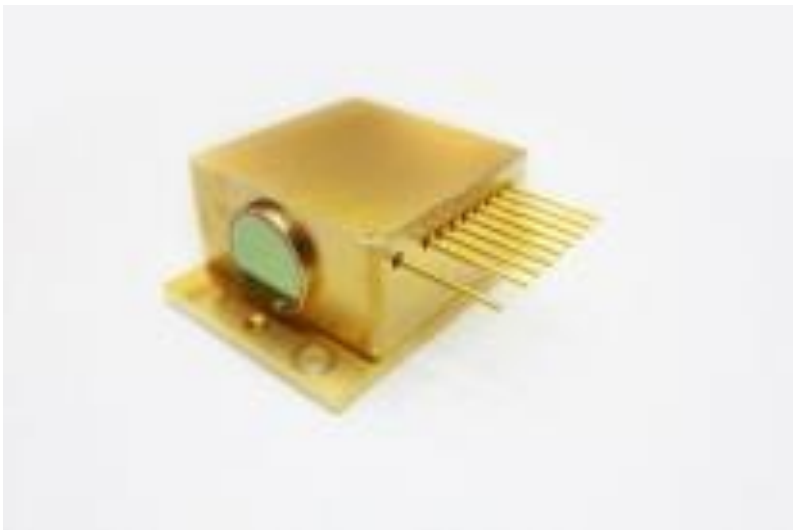
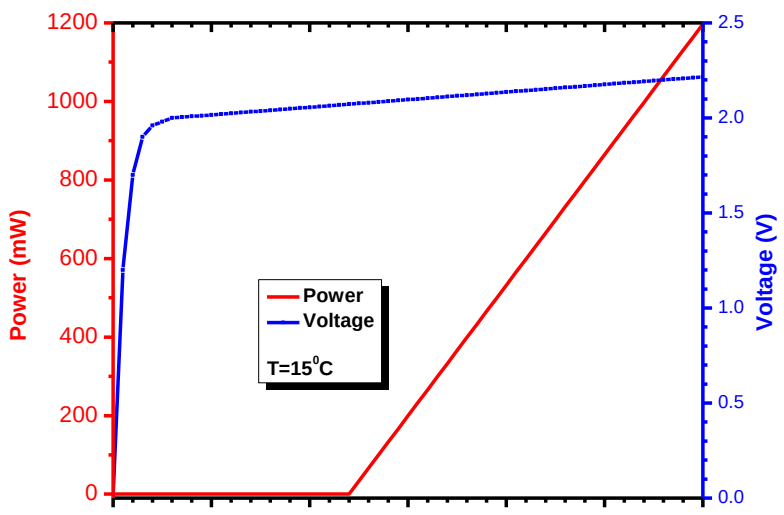


Applications

- Research
- Medical

Specifications

Optical Parameters	Units	
Center Wavelength	nm	635
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.4
Output Power	mW	>1000
Operating Current	mA	2900
Operating Voltage	V	<2.25
Threshold Current	mA	1200
Beam divergence fast axis, FWHM	mrad	<1
Beam divergence slow axis, FWHM	mrad	<1



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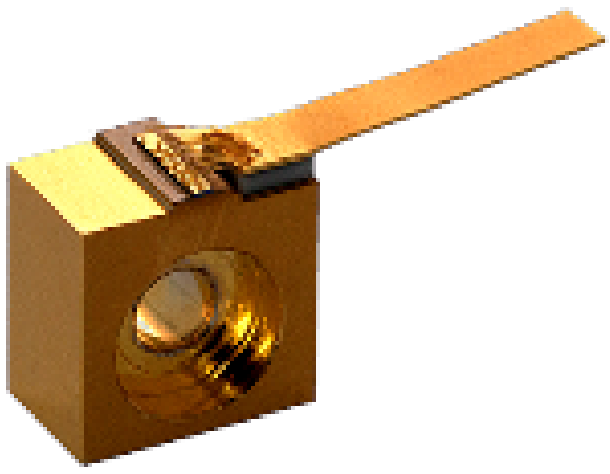
HIGH POWER DIODE LASER

ALC-635-1100-CB



The C-mount is an ideal component for quick prototyping and laboratory setups. However, the maximum output power is typically limited by the inherently sub-optimal heat dissipation properties of the C-mount itself.

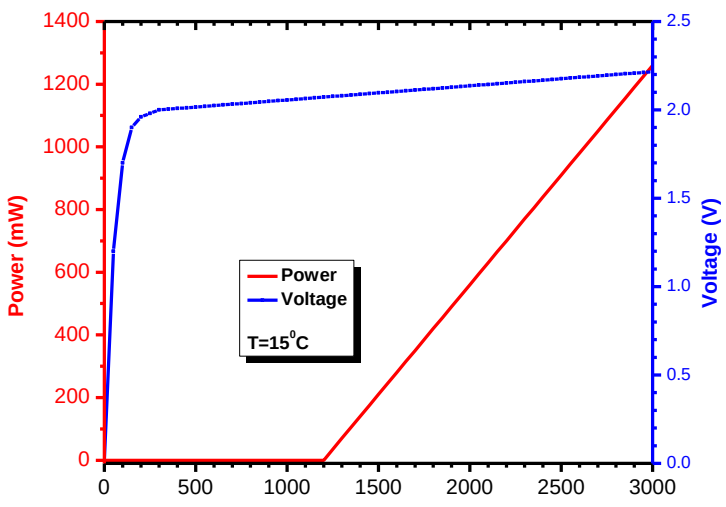
Please contact us to discuss the best package option for your application.

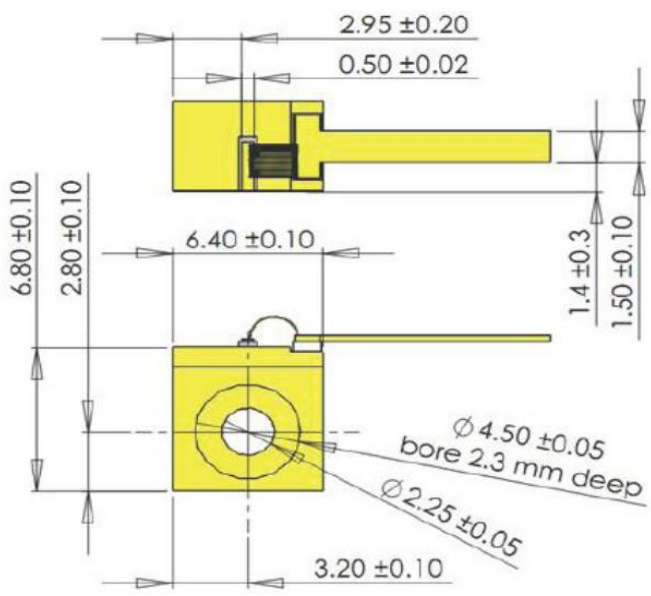
Applications

- Medical
- Solid State Laser Pumping

Specifications

Optical Parameters	Units	
Center Wavelength	nm	635
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.38
Output Power	mW	>1100
Operating Current	mA	2800
Operating Voltage	V	<2.25
Threshold Current	mA	1200
Emitter width	µm	300
Beam divergence fast axis, FWHM	degrees	34
Beam divergence slow axis, FWHM	degrees	7





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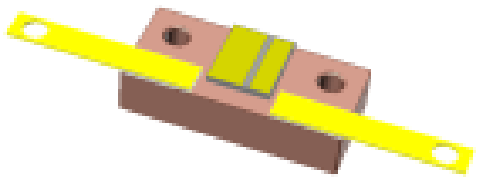
HIGH POWER DIODE LASER

ALC-635-1100-FB

The F-mount is an ideal component for quick prototyping and laboratory setups.

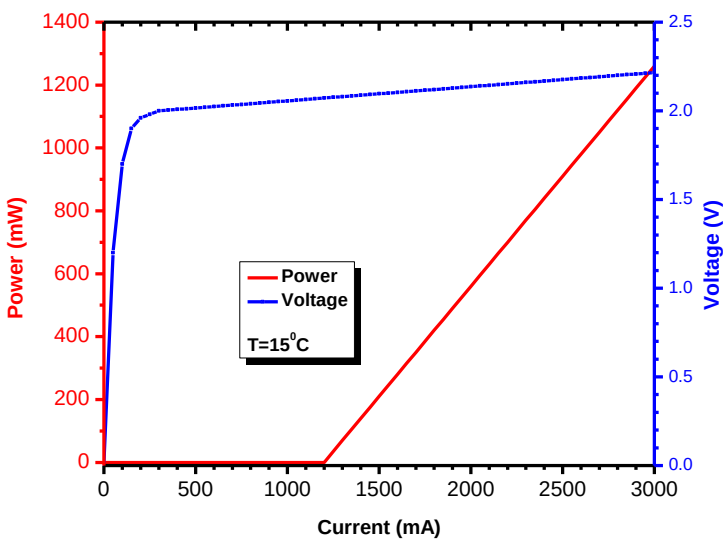


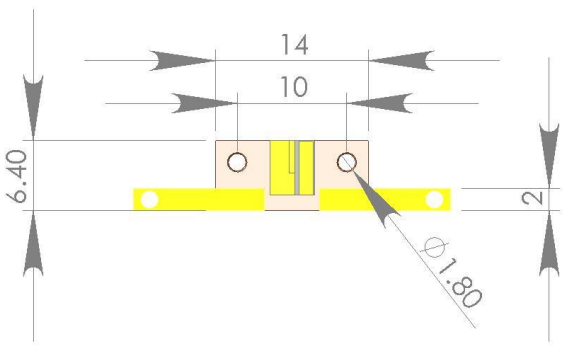
Applications

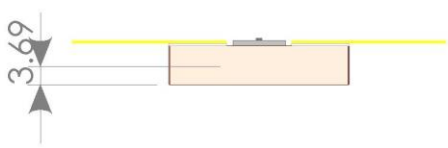
- Medical
- Solid State Laser Pumping

Specifications

Optical Parameters	Units	
Center Wavelength	nm	635
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.38
Output Power	mW	>1100
Operating Current	A	2.8
Operating Voltage	V	<2.25
Threshold Current	A	1.2
Emitter width	µm	300
Beam divergence fast axis, FWHM	degrees	34
Beam divergence slow axis, FWHM	degrees	7







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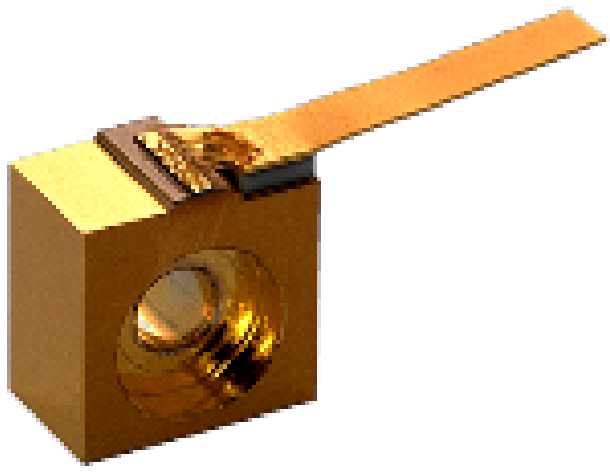
HIGH POWER DIODE LASER

ALC-650-1000-CB

The C-mount is an ideal component for quick prototyping and laboratory setups. However, the maximum output power is typically limited by the inherently sub-optimal heat dissipation properties of the C-mount itself.

Please contact us to discuss the best package option for your application.

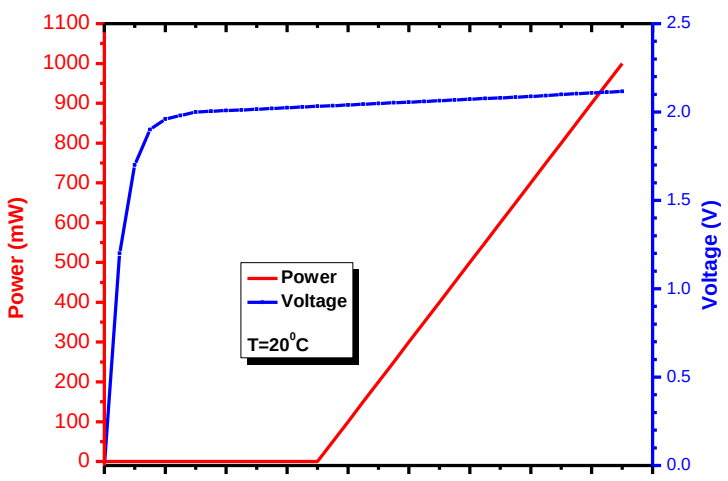


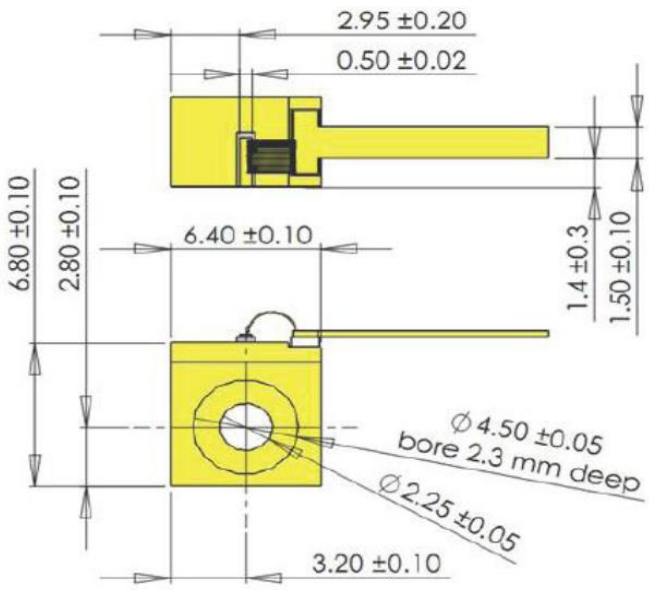
Applications

- Medical
- Cr:LiSAF and Cr:LiCAF Solid State Laser Pumping

Specifications

Optical Parameters	Units	
Center Wavelength	nm	650
Wavelength Tolerance	nm	±5
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	1.2
Output Power	mW	>1000
Operating Current	mA	1700
Operating Voltage	V	<2.2
Threshold Current	mA	700
Emitter width	µm	150
Beam divergence fast axis, FWHM	degrees	40
Beam divergence slow axis, FWHM	degrees	7





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HIGH POWER DIODE LASER

ALC-650-1000-FB

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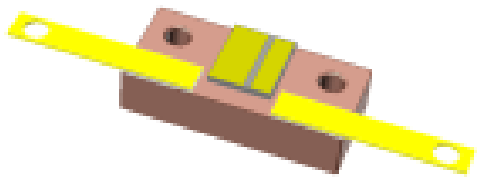
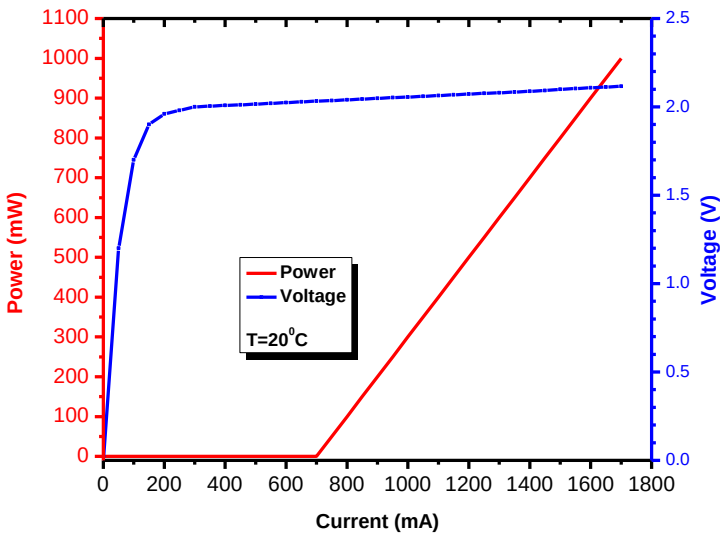


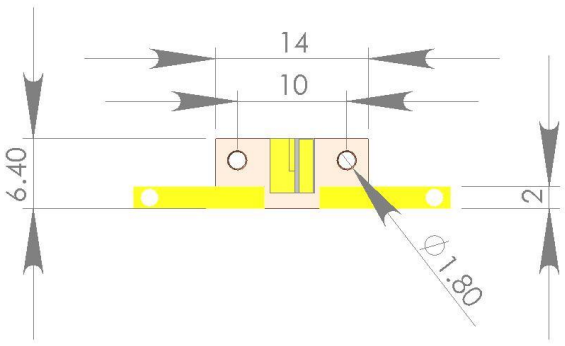
Applications

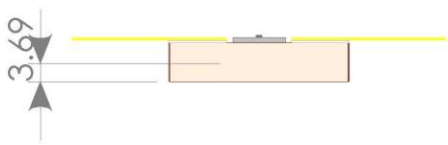
- Medical
- Cr:LiSAF and Cr:LiCAF Solid State Laser Pumping

Specifications

Optical Parameters	Units	
Center Wavelength	nm	650
Wavelength Tolerance	nm	±5
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.4
Output Power	mW	>1000
Operating Current	mA	1700
Operating Voltage	V	<2.2
Threshold Current	mA	700
Emitter width	µm	150
Beam divergence fast axis, FWHM	degrees	40
Beam divergence slow axis, FWHM	degrees	7







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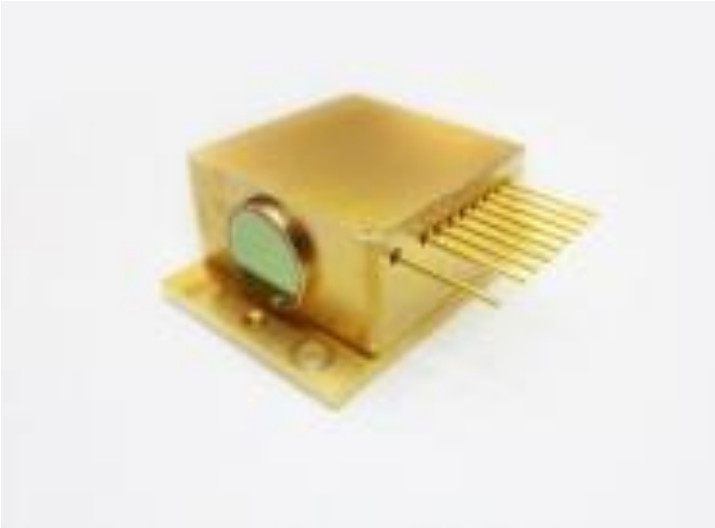
HIGH POWER DIODE LASER

ALC-670-1000-HHL

The High Heat Load (HHL) packaged diode laser is an ideal component for quick prototyping and laboratory setups. It features a built-in thermo-electric cooler (TEC), thermistor for the temperature measurements and a power monitor. The output beam is precisely collimated and circularized.

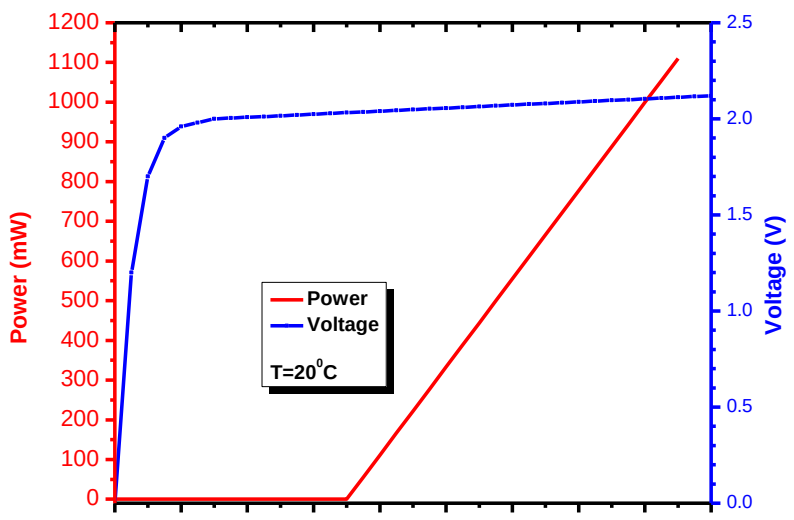


Applications

- Medical
- Research

Specifications

Optical Parameters	Units	
Center Wavelength	nm	670
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.4
Output Power	mW	>1000
Operating Current	mA	1700
Operating Voltage	V	<2.2
Threshold Current	mA	700
Beam divergence fast axis, FWHM	mrad	<1
Beam divergence slow axis, FWHM	mrad	<1



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HIGH POWER DIODE LASER MODULE WITH FIBER OUTPUT

ALC-670-1600-FM400.22

Features

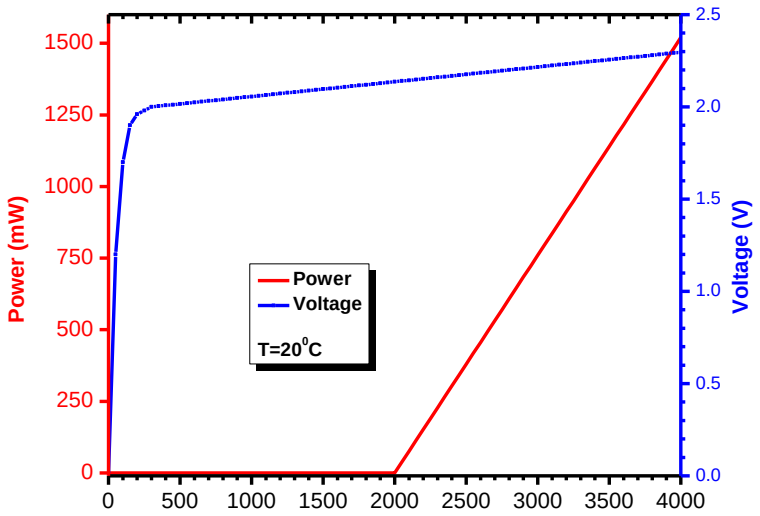
- Compact size
- Detachable 400µm SMA-fiber
- Thermistor
- Power monitor

Applications

- Medical
- Research

Specifications

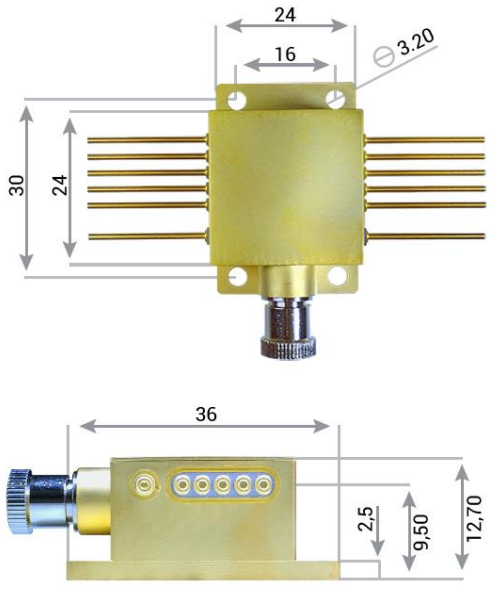
Optical Parameters	Units	
Center Wavelength	nm	670
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.4
Output Power	W	>1.5
Operating Current	A	4.0
Operating Voltage	V	<2.3
Threshold Current	A	2.0



Fiber Parameters		
Fiber Core Diameter	µm	400
Numerical Aperture		0.22
Fiber Connector		SMA-905

Pin-Out

1. TEC (+)
2. Thermistor
3. Not connected
4. Laser Diode Anode
5. Laser Diode Anode
6. Power monitor (+)
7. Power monitor (-)
8. Laser Diode Cathode
9. Laser Diode Cathode
10. Not connected
11. Thermistor
12. TEC (-)



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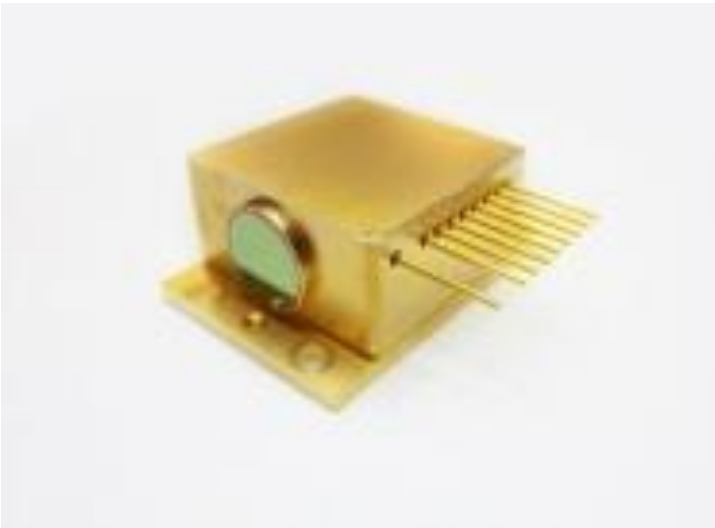
HIGH POWER DIODE LASER

ALC-670-1500-HHL

The High Heat Load (HHL) packaged diode laser is an ideal component for quick prototyping and laboratory setups. It features a built-in thermo-electric cooler (TEC), thermistor for the temperature measurements and a power monitor. The output beam is precisely collimated and circularized.

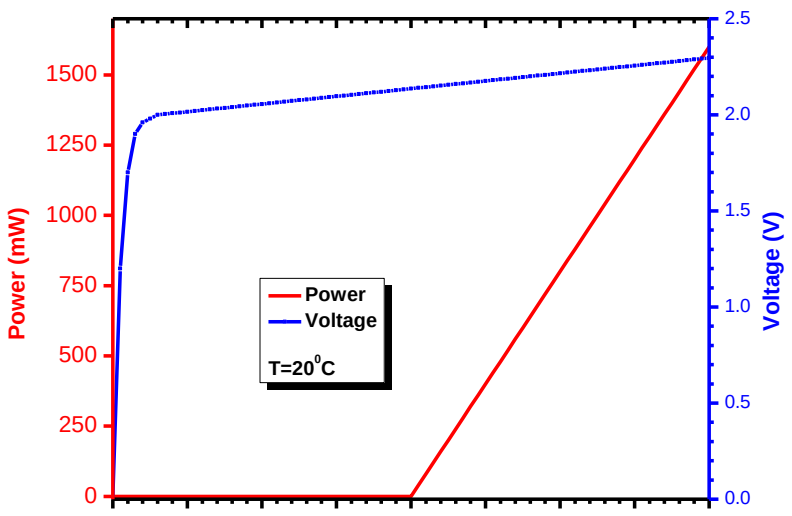


Applications

- Medical
- Research

Specifications

Optical Parameters	Units	
Center Wavelength	nm	670
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.4
Output Power	W	>1.5
Operating Current	A	4.0
Operating Voltage	V	<2.2
Threshold Current	A	2.0
Beam divergence fast axis, FWHM	mrad	<1
Beam divergence slow axis, FWHM	mrad	<1



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HIGH POWER DIODE LASER

ALC-670-1600-CB

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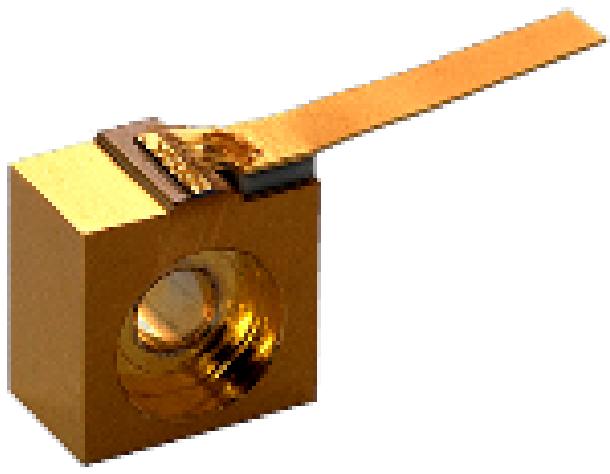
Please contact us to discuss the best package option for your application.

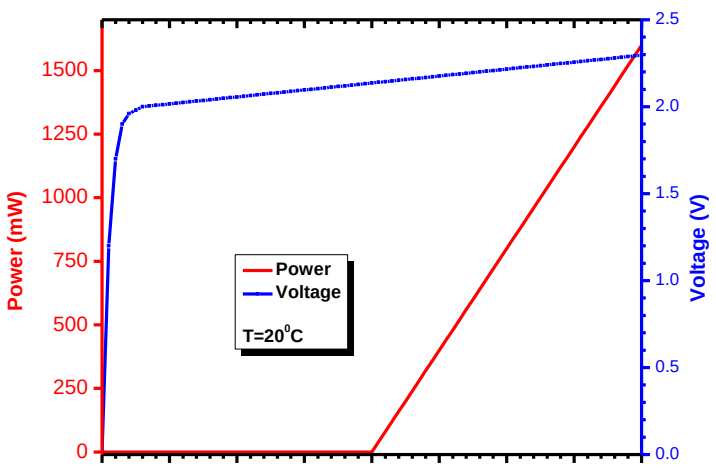


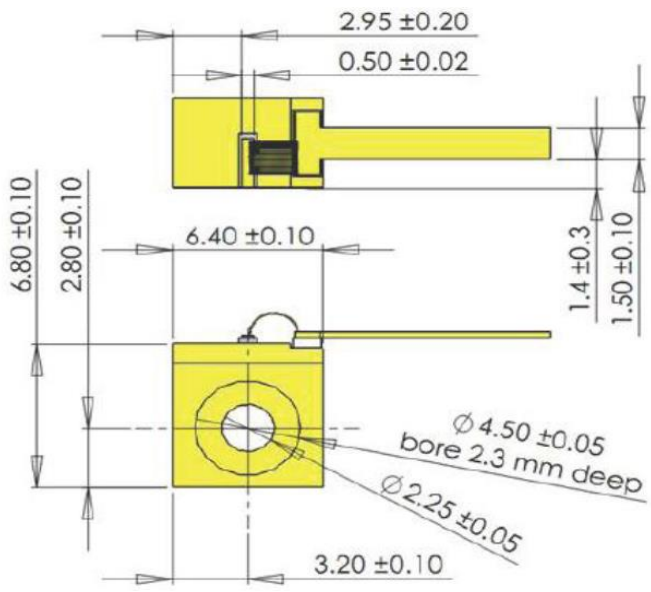
Applications

- Medical
- Research

Specifications

Optical Parameters	Units	
Center Wavelength	nm	670
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.5
Output Power	mW	>1600
Operating Current	A	4
Operating Voltage	V	<2.3
Threshold Current	A	2
Emitter width	µm	300
Beam divergence fast axis, FWHM	degrees	40
Beam divergence slow axis, FWHM	degrees	7





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HIGH POWER DIODE LASER

ALC-670-1600-FB

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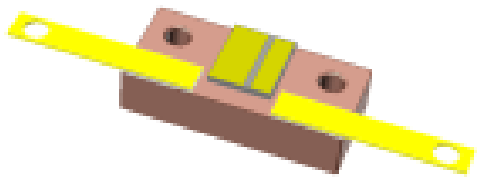
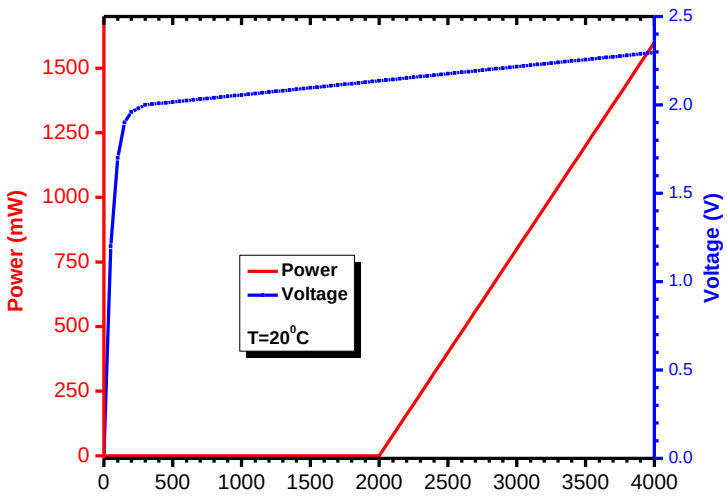


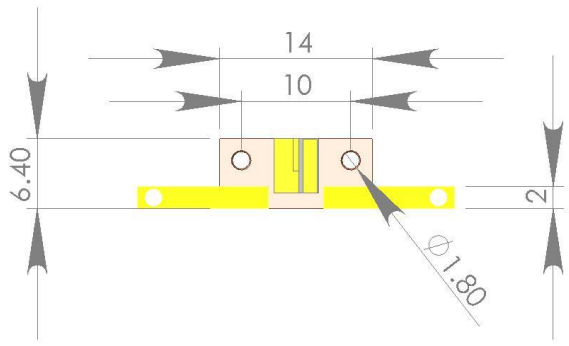
Applications

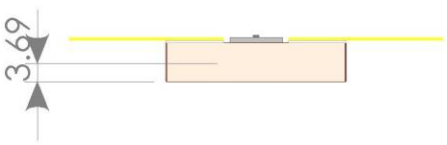
- Medical
- Research

Specifications

Optical Parameters	Units	
Center Wavelength	nm	670
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.4
Output Power	mW	>1600
Operating Current	A	4
Operating Voltage	V	<2.3
Threshold Current	A	2
Emitter width	µm	300
Beam divergence fast axis, FWHM	degrees	40
Beam divergence slow axis, FWHM	degrees	7







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HIGH POWER DIODE LASER

ALC-690-1100-CB

The C-mount is an ideal component for quick prototyping and laboratory setups. However, the maximum output power is typically limited by the inherently sub-optimal heat dissipation properties of the C-mount itself.

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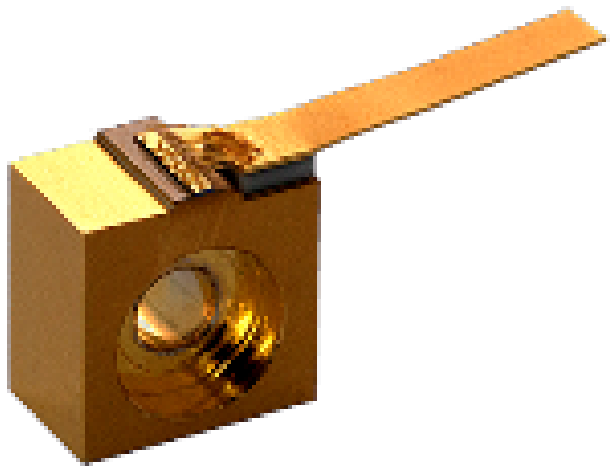
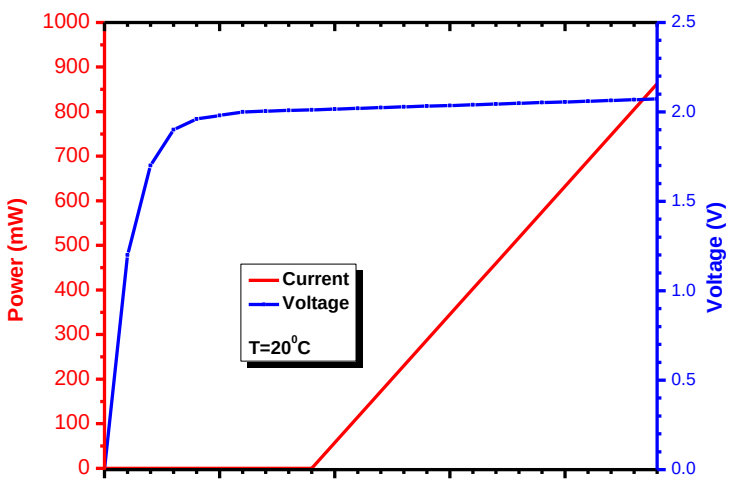


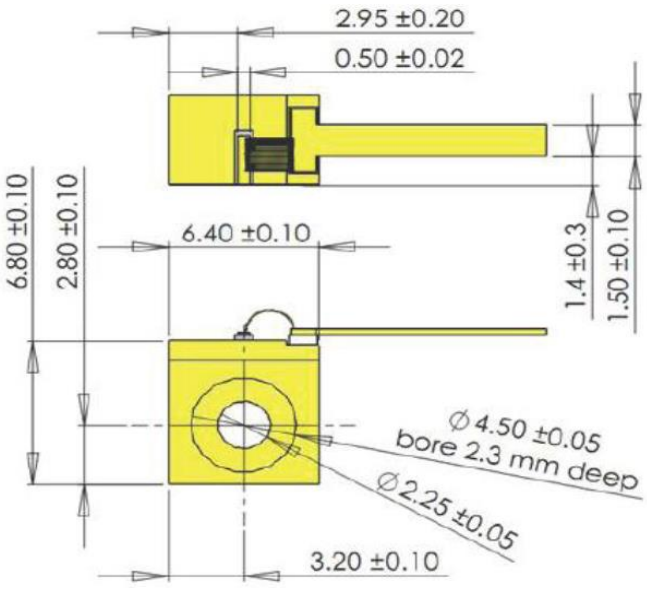
Applications

- Medical
- Research

Specifications

Optical Parameters	Units	
Center Wavelength	nm	690
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.5
Output Power	mW	>750
Operating Current	mA	1100
Operating Voltage	V	<2.3
Threshold Current	mA	450
Emitter width	µm	100
Beam divergence fast axis, FWHM	degrees	34
Beam divergence slow axis, FWHM	degrees	7





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ALC-690-1100-CB

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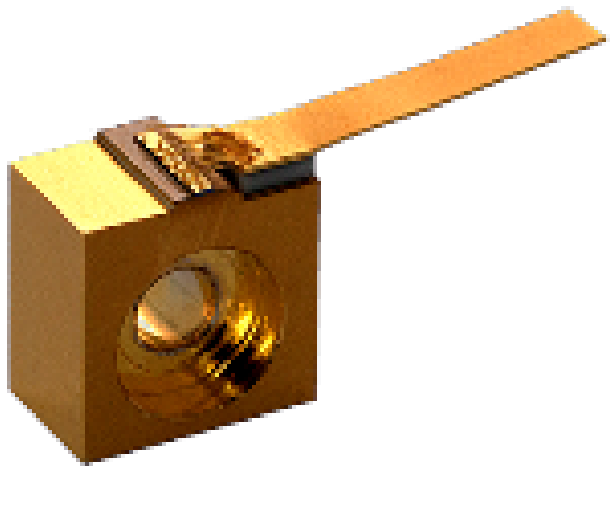
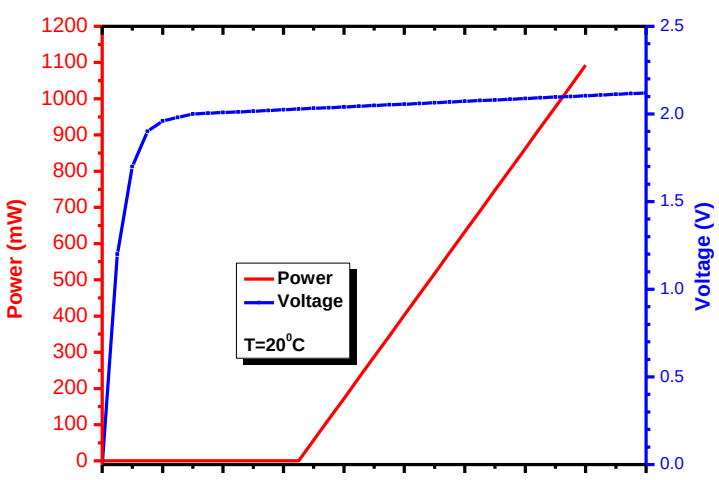


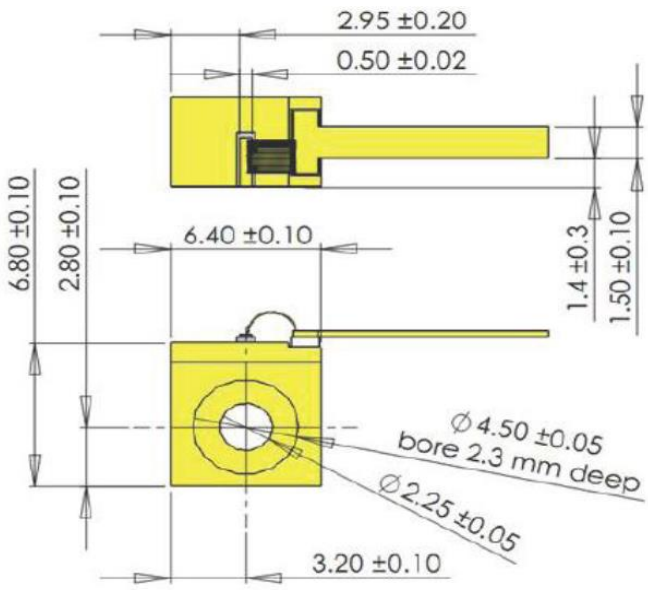
Applications

- Medical
- Research

Specifications

Optical Parameters	Units	
Center Wavelength	nm	690
Wavelength Tolerance	nm	±3
Spectral Width (FWHM)	nm	1.0
Wavelength Temp. Coefficient	nm/°C	0.5
Output Power	mW	>1100
Operating Current	mA	1600
Operating Voltage	V	<2.3
Threshold Current	mA	650
Emitter width	µm	150
Beam divergence fast axis, FWHM	degrees	34
Beam divergence slow axis, FWHM	degrees	7





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.

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