

Hangzhou BrandNew Technology Co.,Ltd

Products List

diode laser company



2020

B-1506 Ruiding Mansion, No.200 Zhenhua Rd, 310030 Hangzhou, China

Company Introduction:

BrandNew Tech, the diode laser company, manufactures high-power diode lasers and systems in a wide range of output powers and wavelengths including wafer growth and slicing, fiber coupling and bar stacking laser. More than 1000 models are for your choice.

Established in 2005 and cooperated with Institute of Semiconductors Chinese Academy of Sciences and Zhejiang University, Today, over 60 technicians and 2 scientists, 20 of them are PHD degree. Production site is 1000 Class Lab Clean Room with 5000sqm.

Turnover per year is about 20 Million US Dollars with 30% growth year on year.

BrandNew 's strengths are in talent employees, quality engineering, process control, product development and volume manufacturing. Some of our co-operative corporation and clients are Jenoptik/Dilas/Nufern/Fisba/INGENERIC/Lasertel/Coherent/II-VI/nlight/TECNISCO/Tokyo University/Osaka University, etc.



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Bare Laser Chip/Bar

Optical

Central Wavelength	755nm	808nm	830nm	905nm	940nm	976nm	1550nm
Wavelength Tolerance	±10nm, ±5nm, ±3nm						
Output Power	2W,10W,20W,50W,100W,150W,200W,300W,500W,1000W						
Working Mode	CW/QCW/Single Mode						
Number of Emitter	1~60						
Filling Factor	30%~75%						
Cavity Length	1000um/1500um/2000um/3000um						

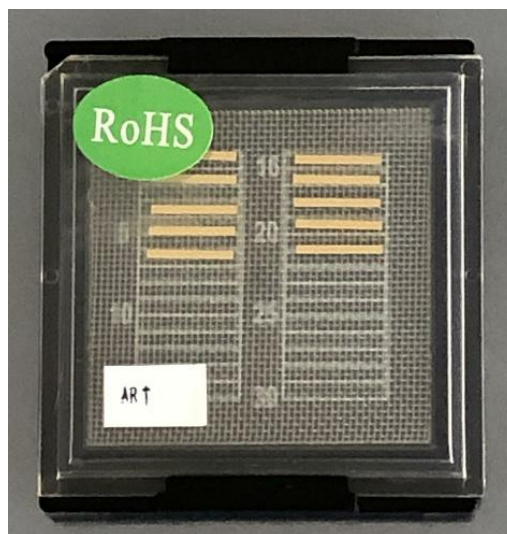
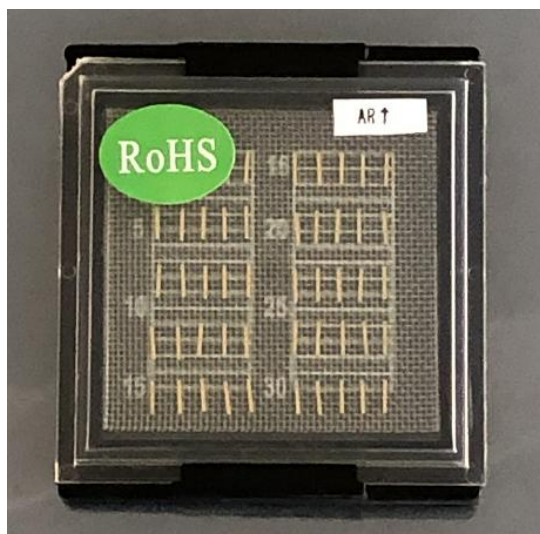
Electrical

Working Current	1~300A
Threshold Current	0.5~50A
Working Voltage	1.8~2.1V
Power Conversion Eff	30%~60%

Optional Function	Customised Design
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Thermal

Working Temp	25°C
Storage Temp	-30~80°C
Wave Temp Coefficient	~ 0.3nm/°C



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Laser Diode

Optical

Central Wavelength	405nm,445nm,520nm,635nm,650nm,790nm,808nm,860nm,880nm,905nm,940nm,976nm,1064nm,1470nm,1550nm,2100nm
Wavelength Tolerance	±5nm
Output Power	5mW,100mW,500mW,1W,5W,10W,75W,100W,150W,500W,900W
Working Mode	CW/Pulse
Polarization Mode	TE
Slope Efficiency	≥1.1W/A

Electrical

Working Current	1~30A
Threshold Current	0.5~5A
Working Voltage	1.8~2.1V
Power Conversion Eff	50%~60%

Package Type	TO3.3, TO5.6, TO9, C-Mount, F-Mount
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Thermal

Working Temp	25°C
Storage Temp	-30~80°C
Wave Temp Coefficient	~0.3nm/°C



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Fiber Coupled Diode Laser

Optical

Central Wavelength	793nm	808nm	830nm	915nm	940nm	976nm	1064nm
Wavelength Tolerance	±10nm, ±5nm, ±3nm, ±1nm, ±0.5nm						
Output Power	1~750W						
Spectral Width FWHM	<5nm, <3nm						
Slope Efficiency	>1W/A, >5W/A, >10W/A						

Fiber

Fiber Core	50um/62.5um/105um/200um/400um/800um
Numerical Aperture	0.13NA~0.22NA
Fiber Length	0.5m~5m
Fiber Jacket Diameter	0.9mm/2mm/3mm/Metal Jacket
Fiber Connector	SMA905/FC/ST/Bare

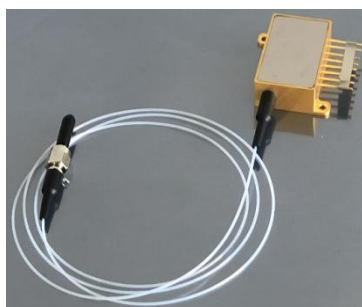
Electrical

Working Current	1~30A
Threshold Current	0.5~5A
Working Voltage	1~40V
Power Conversion Eff	30%~60%

Optional Function	TEC, Aiming Beam, PD, Thermistor, Detachable Fiber, Multiwave
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Thermal

Working Temp	15~55°C
Storage Temp	-30~70°C
Wave Temp Coefficient	~ 0.3nm/°C
Lead Soldering Temp	<250°C/<10seconds



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Stack Array Diode Laser

Optical

Central Wavelength	755nm	808nm	915nm	940nm	976nm	1064nm
Wavelength Tolerance	±10nm, ±5nm, ±3nm					
Output Power Per Bar	20W/40W/80W/100W/200W/300W~30000W					
Number of Bars	1~60pcs					
Working Mode	CW/QCW					

Electrical

Working Current	1~300A
Threshold Current	0.5~50A
Working Voltage	1~40V
Power Conversion Eff	30%~60%

Optional Function	FAC Lens, SAC Lens
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Thermal

Working Temp	-20~70°C
Storage Temp	-30~80°C
Wave Temp Coefficient	~ 0.3nm/°C
Cooling Way	Water Cooled/TEC/Conduction Cooled/Air Cooled

