

Fiber Coupled Laser System



These systems provide up to 450 mW of continuous power and combine a high brightness glass fiber coupled to a laser diode with a thermoelectric cooler, heatsink, fan, power supply and component electronics all in one package. Their unique design includes an external TTL modulation port (BNC connector). LCD display shows output as current values (mA). Fiber Pigtail at laser interface is not removable. Note that stated maximum output power is at fiber tip face. All units are sealed in box. User cannot access diode or diode-fiber interface. Fiber uses non-epoxy high power connector with the industry standard termination for high power lasers. Optional Collimator Lens can be threaded directly onto SMA connector of the emitting fiber.

Highlights

- Power delivered by high-brightness fiber
- Stand-alone self-contained system
- Compact, TEC with forced air cooling
- 600-1600 nm wavelengths available

Applications

- Raman Spectroscopy
- Laser Pumping
- Selective soldering/de-soldering
- Heat treating
- Quick curing of epoxy
- Transformation hardening
- Plastic welding

BWF1

Fiber Coupled Laser System

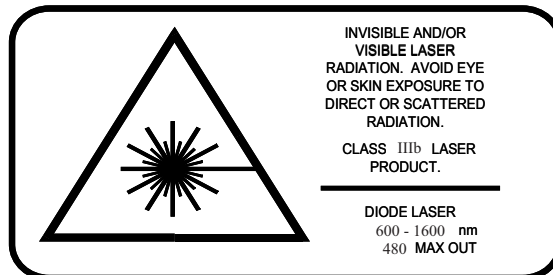
Typical Specifications

Optical							
Wavelength Available	635 +/-5	650 +/-5	670 +/-5	785 +/-5	808 +/-5	975 +/-5	1540 +/-10
Output Power (mW)	0 - 100	0 - 150	0 - 300	0 - 450	0 - 450	0 - 450	0 - 250
Class	IIIb, CW output						
Beam Divergence	0.22 NA nominal						
Bandwidth (FWHM)	< 3nm (635, 650, 670, 785, 808, 975nm); <10nm (1540nm)						
Output	0.5 meter fiber with SMA905 termination						
Fiber Size	100um core (multimode)						
Electronic							
Input Power	1A @ 110V AC, typical						
Modulation	DC - 20KHz, TTL						
Mechanical							
Physical Dimensions	6(W) x 3(H) x 10(D) inches						
Cooling	Thermal electric cooler with forced air						
Weight	2.5 lbs						
Environmental							
Ambient Temperature	10 to 30 °C						
Humidity	5-95%, non-condensing						

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Typical Specifications (Con.)

Optical							
Wavelength Available	690 +/-5	730 +/-5	750 +/-5	830 +/-5	860 +/-10	915 +/-10	1064 +/-10
Output Power (mW)	0 - 300	0 - 300	0 - 300	0 - 450	0 - 450	0 - 450	0 - 450
Class	IIIb, CW output						
Beam Divergence	0.22 NA nominal						
Bandwidth (FWHM)	< 3nm						
Output	0.5 meter fiber with SMA905 termination						
Fiber Size	100um core (multimode)						
Electronic							
Input Power	1A @ 110V AC, typical						
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DISCLAIMER: This product complies with the requirements with Federal Regulations CDRH 21 CFR 1040.10. This laser is intended for scientific and industrial applications only and is not for use as a medical device.