

Laser Solution

BWF1 Fiber Coupled Laser System



With up to 450mW of continuous laser power, the BWF1 is a fully integrated turnkey laser solution. The BWF1 is built to include features such as an external TTL modulation port (BNC connector) and an LCD display for setting laser power.

Features

- Power delivered by high-brightness fiber (power at fibertip)
- Stand-alone, self-contained system
- Compact TEC with forced air cooling
- 600-1600nm wavelengths available
- Non-removable fiber pigtail at laser interface
- Full system design (user cannot access diode or diode-fiber interface)
- Custom configurations / wavelengths available upon request

Applications

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

Specifications



Optical									
Wavelength Available	635 +/-5	650 +/-5	670 +/-5	750 +/-5	785 +/-5	808 +/-5	975 +/-5	1064 +/-10	1550 +/-20
Output Power (mW)	0 - 100	0 - 150	0 - 300	0 - 300	0 - 450	0 - 450	0 - 450	0 - 450	0 - 250
Class	IIIb, CW Output								
Beam Divergence	0.22 NA Nominal								
Bandwidth (FWHM) (nm)	< 3 (635, 650, 670, 750, 785, 808, 975); <10 (1064, 1550)								
Output	0.5 Meter Fiber with SMA905 Termination								
Fiber Size (µm)	100 Core (Multimode)								
Electronic									
Input Power	1A @ 110 to 240V AC, Typical								
Modulation	DC - 20KHz, TTL								
Mechanical									
Physical Dimensions	152mm x 100mm x 266mm (6" x 4" x 10.5")								
Cooling	Thermal Electric Cooler with Forced Air								
Weight (lbs)	2.5								
Environmental									
Ambient Temperature (°C)	10 to 30								
Humidity	5-95%, Non-condensing								

*Other options available by special order

DISCLAIMER: This product complies with the requirements of 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.