連續式固態雷射
Continuous Solid-State Laser

JDSU

藍光固態雷射

Continuous Wave 488 nm Solid - State Laser - FCD488



Key Features

- Compact – optics and electronics integrated in one housing
- Low heat load – no heat sink required
- Good efficiency – requires only small 5 V power supply
- Fiber-based architecture – enables fiber-delivered version
- High reliability – due to telecom-style packaging technology

Applications

- Biotechnology
- Semiconductor instrumentation
- General instrumentation

Specifications

Parameter	FCD488-010 (Free Space)	FCD488-020 (Free Space)	FCD488-025 (Free Space)	FCD488FC-010 (Fiber Delivered)	FCD488FC-020 (Fiber Delivered)
Optical					
Wavelength			488 ± 2 nm		
Output power	10 mW	20 mW	25 mW	10 mW	20 mW
Power stability (2 hour,25±3 °C) after warm-up			<2.0%		
Mode quality M^2			<1.2		
Beam diameter ($1/e^2$ point)			0.7 mm ± 10%		
Beam divergence (full angle)			<1.0 mrad		
Polarization ratio (E-vector is vertical)			>100:1		
Noise (rms, 20 Hz to 2 MHz)			<0.5%		
Ellipticity			<10%		
Pointing stability after warm-up			<10 µrad/°C		
Static alignment					
Beam position	± 0.25 mm	± 0.25 mm	± 0.25 mm	± 0.5 mm	± 0.5 mm
Beam angle	± 2.5 mrad	± 2.5 mrad	± 2.5 mrad	± 50 mrad	± 50 mrad
Environmental					
Base plate temperature					
Operating			10 to 45°C		
Non-operating			0 to 60°C		
Shock (11 ms duration)					
Operating			1 g		
Non-operating			25 g		
Vibration (sinusoidal,5 to 500 Hz)					
Operating			0.3 g		
Non-operating			2 g		
Warm-up time			<10 minutes		
Electrical requirements					
Operating voltage			5.0 ± 0.4 V DC		
Current required			4 A		

方全有限公司
Rapitech Enterprise Co.,Ltd.
244 新北市林口區仁愛路二段309號10樓
Tel : 886-2-2608-8096(台北) / Tel : 86-21-6248-3333(上海) / Fax : 886-2-2608-8092
E-mail : sales@rapi-tech.com.tw www.rapi-tech.com