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iQoM

Ultrafast fiber laser

Features

- SESAM free
- Electronics free
- All-PMF configuration

Applications

- Seed laser for industrial laser
- Multiphoton microscopy
- Ultrafast spectroscopy

Ultrashort pulse laser generator

Most of the ultrashort pulse fiber lasers on the market use a semiconductor saturable absorber mirrors (SESAMs) in the oscillators. However, SESAMs have issues with degradation, manufacturing variation, and availability. iQoM series uses well-designed artificial saturable absober.

iQoM does not include any active components such as laser diodes and electrical circuits. There is no risk of failure caused by electricity. iQoM is compatible with your existing LDs, electronics, and can be easily replaced with your traditional oscillators.

The monitor port is available as an option

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Specifications

	IQOM-1040-OSC	IQOM-1040-AMP	IQOM-1064-OSC	IQOM-1064-AMP
Center wavelength	1040 ± 3 nm		1064 ± 3 nm	
Spectral bandwidth (min.) *1	2 nm	8 nm *3	2 nm	3 nm
Pulse width	1 - 5 ps	3 - 12 ps	1 - 5 ps	2 - 8 ps
Average output power (min.)	0.5 mW	80 mW	0.5 mW	10 mW
LD input power (max.) *2	300 mW	600 mW	300 mW	600 mW
Pulse repetition rate	20 ± 3 MHz			
Polarization	Linear (Slow axis)			
Fiber connectors	PMF 0.8 m, FC/APC *4			
Operating temperature	15 – 30°C			
Size	200 × 150 × 46 mm			

*1: 3dB bandwidth

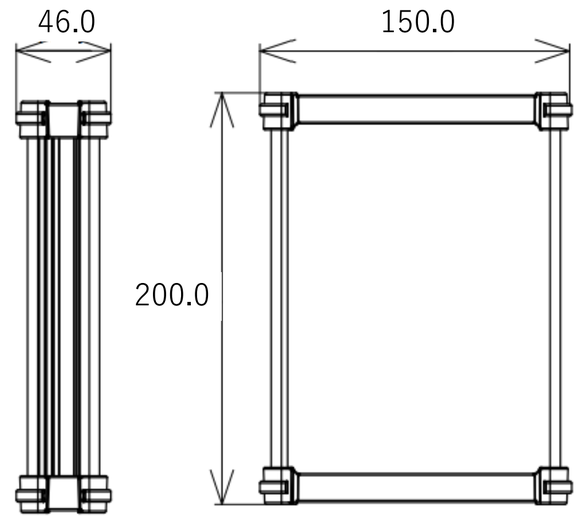
*2: PMF pigtailed FBG-stabilized 976 nm LD

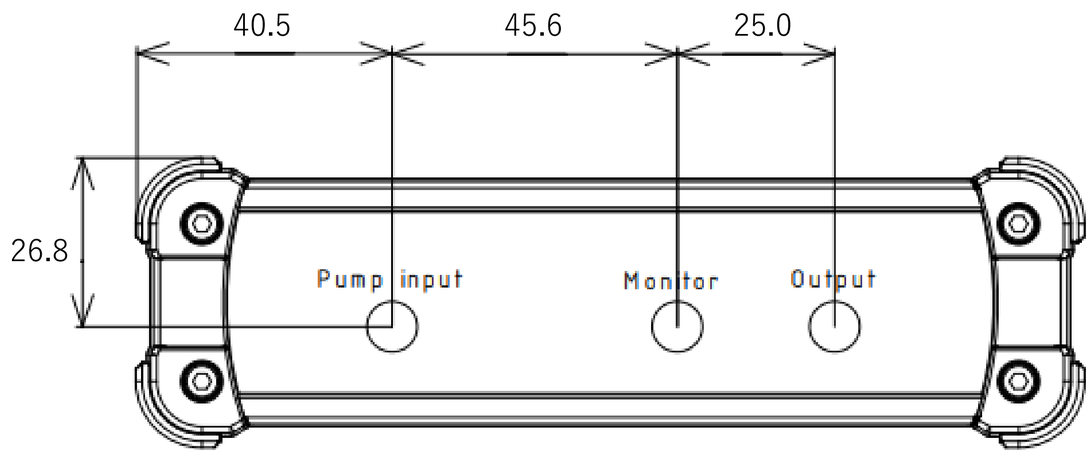
*3: Transform-limited < 200 fs

*4: The PMF and connector keys are aligned to the slow axis

Specifications subject to change without notice.

Drawings





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Go to iQoM special website

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