



Features:

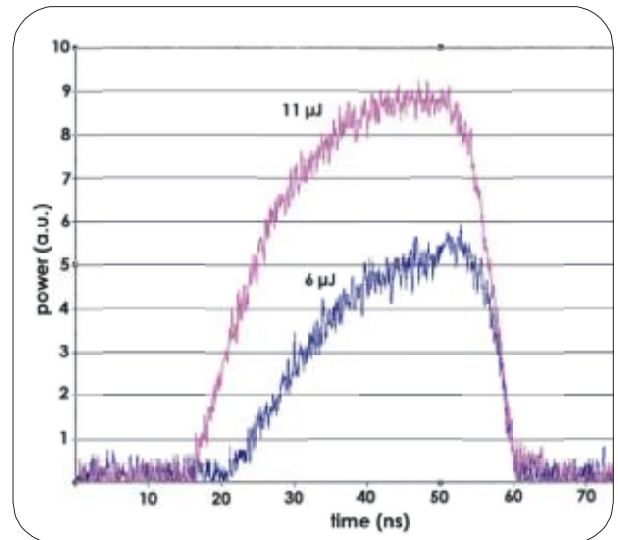
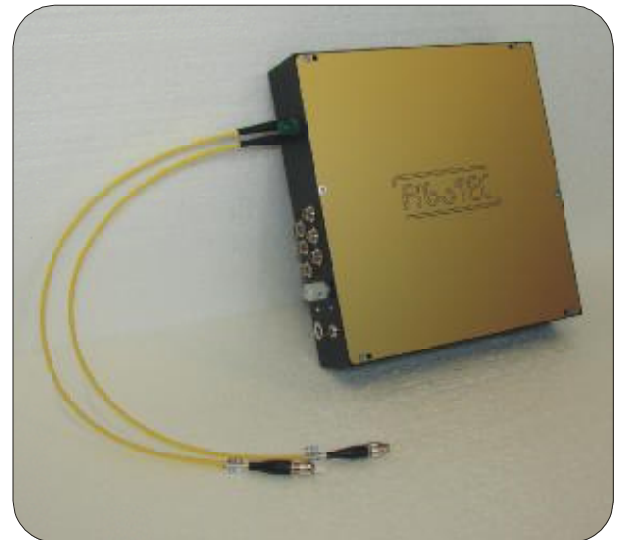
- high peak power
- excellent beam profile over life time
- low power consumption

Pulsed Fiber Amplifier MOPA

These light sources are compact master oscillator - power amplifier (MOPA) setups that can be directly modulated within certain limits of repetition rate and pulse power. Standard products operate at around $1.5 \mu\text{m}$ wavelength at a repetition rate of $> 6 \text{ kHz}$ and a pulse power of $10 \mu\text{J}/50 \text{ ns}$ (200 W peak).

1050-1090 nm wavelength is available on request. Customer specific products at both wavelength windows with an additional booster amplifier stage permit much higher repetition rates (above 50 kHz) or peak power (2 kW).

The high power density and the excellent beam parameter product after decoupling into freespace make these light sources a preferred choice for many test and measurement applications. Especially mobile range finders, scanners and LIDAR-systems can benefit from the beam quality in connection with the low power consumption.



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Specifications: Pulsed Fiber Amplifier MOPA

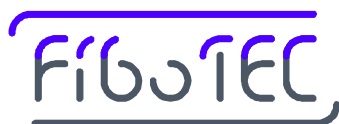
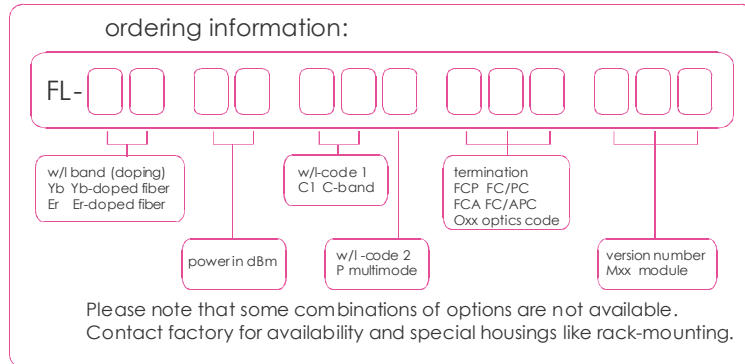
Parameter	FL-Er 23 C1P FCA M01	unit
wavelength range	1530-1565	nm
optical power average	23	dBm
pulse energy	> 10	μJ
pulse width (FWHM)	typ. 50	ns
repetition rate	6-20	kHz
pulse energy @100 kHz	2	μJ
return loss	typ. -50	dB

Pin	designation
1-4	+ 5 V
5-8	GND
9	P _{out} Monitor
10	Enable 1
11	Enable 2
12	LOS
13	Temp Error
14	Range Error
15	P _{in} Monitor
16-20	N.C.

Options:

- A: booster stages (average power output > 1 W)
- B: collimation optics
- C: version with Yb-doped fiber (1060 nm - region)
- D: customized packages and modules
- E: customized seed sources

Please indicate requirements by selecting options from the table or filling in desired values that still need to be confirmed by the manufacturer.



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Specification:

- size: 145 x 100 x 17 cmm (module)
210 x 290 x 95 cmm (instrument)
- weight: < 500 g (instrument < 4 kg)
- supply: 4 A max. @5V DC (module)
< 40 W @ 100-240 V AC/50-60 Hz (instrument)
- working temperature: 0°C-40°C (non-condensing)
- storage temperature: -40°C-85°C
- complies with CE

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