Fiber seed lasers for micro-machining systems

PicoFYb 1030/1064
Cost-effective german quality fiber seed laser

- Highest lifetime: TOPTICA proprietary SESAM modelocking technology
- Highest long-term stability: Perfect spectral matching to amplifier
- Ease of use, most compact and reliable: All-PM fiber technology
- Ideally suited trigger for pulse-picking
- Fiber laser from the expert: Industrial quality Made in Germany

learn more...
PicoFYb 1030/1064

**Wavelength [nm]**
- 1030.5 ± 0.5
- 1064.3 ± 0.5

**Pulse duration [sech²]**
- typ. 6.5 ± 1 ps
- typ. 5.5 ± 1 ps

**Average power [mW]**
- > 20 (typ. 25)
- > 50

**Output**
- FC/APC fiber pigtail, 30 ± 2 cm long

**Repetition rate [MHz]**
- 30 ± 0.5
- 20 ± 0.5

**Spectral width [nm]**
- < 0.4
- < 0.5

**Polarisation [dB]**
- PER > 20 dB

**Beam Shape**
- TEM₀₀, M² < 1.2

**Trigger Signal (SMA connector)**
- > 150 mV @ 50 Ohm (300 MHz BW), positive

**Spectral width**
- < 0.5 nm

**Time-Bandwidth-Product**
- < 0.5 (typ.)

**RF side mode supression**
- > 50 dBc

**Peak-to-peak noise**
- < 3 %

**Output coupling**
- SM/PM 980 fiber pigtail with narrow key FC/APC connector, length > 20 cm

**Dimensions laser head**
- 50.2 x 135.1 x 176.5 mm³ (H x W x D)

**Weight laser head**
- < 2 kg

**Power supply**
- 12 VDC

**Power consumption**
- < 10 Watt

**Interfaces**
- TTL control lines, Switchbox (optional) or remote control (RS-232)

**Environment temperature**
- 15 - 40 °C (operating), 0 - 40 °C (storage and transport)

**Environment humidity**
- Non-condensing

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**Intensity Autocorrelation**
- typ. 5.3 ps pulse duration (fourier-limited)

**Emission spectrum**
- typ. 0.46 nm bandwidth (-3 dB)

**High RF noise suppression**
- clear signal, <-50 dBc