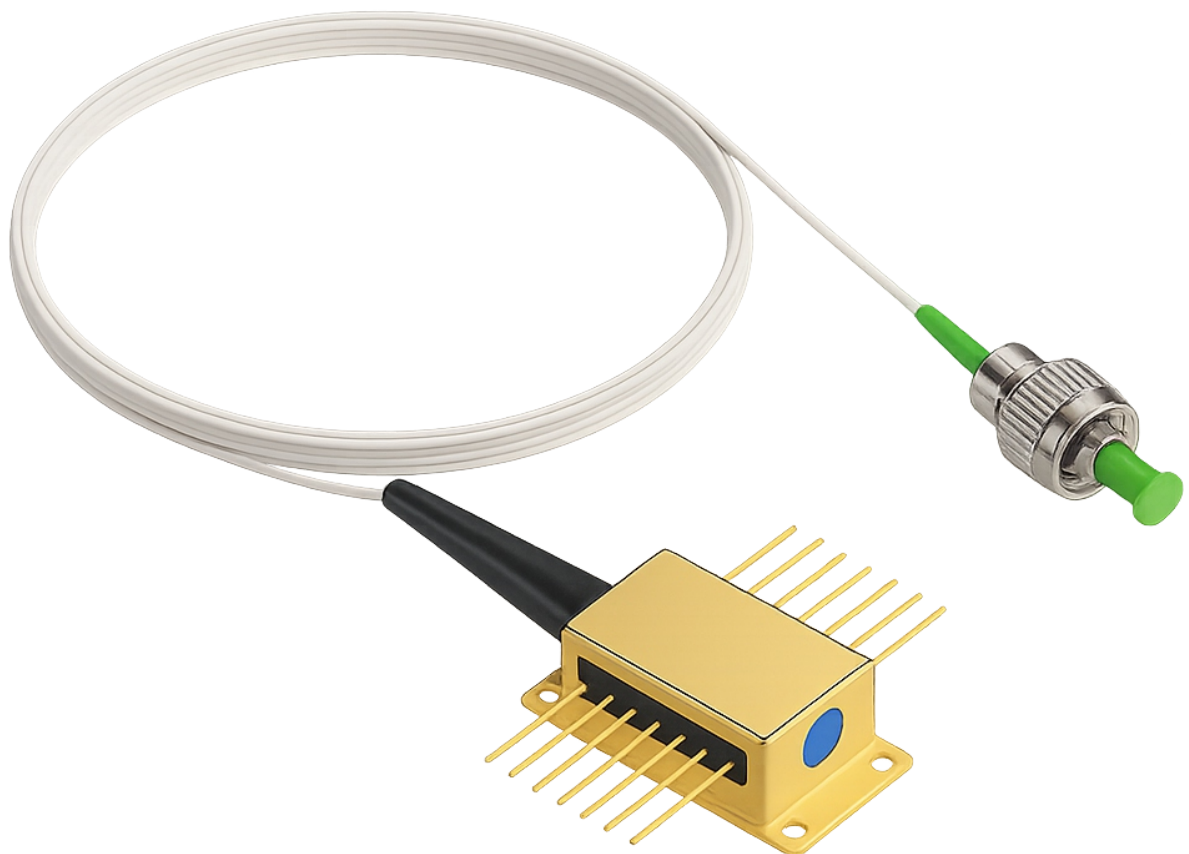


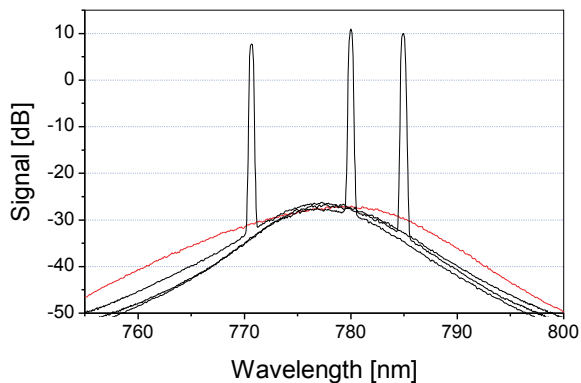
Serval

Tunable Diode Laser Amplifier
Tapered Amplifier Technology

Scientific Lasers



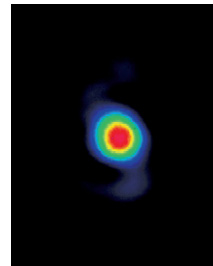
Side Mode Supression



Red curve: uTA without master
Black curve: Injected master laser at different wavelengths

*Absorption Spectroscopy
Optical Cooling
& Trapping*

Beam Quality

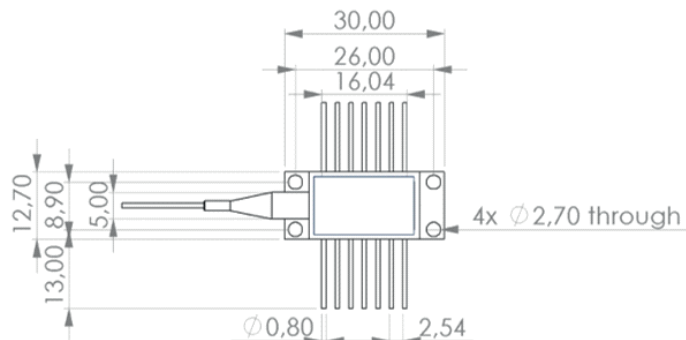
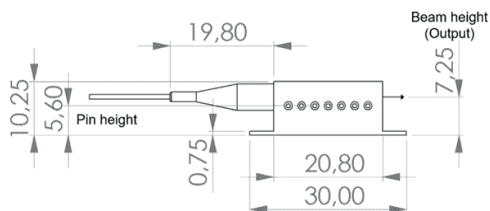


Typical Values:
Power: 3000 mW
 $M^2 < 1.5$

Specifications

Output Power	500 mW .. 4000mW (depending on wavelength)
Wavelength	670nm, 690nm, 760 nm, 780nm, 813nm, 830nm, 850nm, 920nm, 960nm, 1020 nm, 1060nm, 1120nm or as specified
Linewidth	depending on Master laser
Side Mode Supression	> 40 dB for a normal ECDL
Beam Diameter @ 100 cm dist.	1.8 .. 2.2 mm x 1.8 mm .. 2.2 mm
Beam Divergence	< 2.5 mrad
Beam Quality M^2	< 1.5 (depending on seed conditions)
Output Polarization	TE
Seed Power Requirement	10 mW .. 50mW (depending on model)
Thermo-Electric Cooler	ΔT_{max} : 40 K @ 75% Power (20 K @ 100% Power) I-TEC: 4 A (max.) U-TEC: 7 V (max.)
Temperature Sensor	10 k Ω NTC

Dimensions



Please contact us

Sacher Lasertechnik
GmbH
Hedwig-Jahnow-Str. 12
D-35037 Marburg/Lahn
Germany
Tel.: +49 6421 305 - 0
Fax: +49 6421 305299

Sacher Lasertechnik
LLC
5765 Equador Way
Buena Park, CA90620
U. S. A.
Tel.: 1-800-352-3639
Fax: 1-714-670-7662

Email: contact@sacher.de
Web: <http://www.sacher.de>