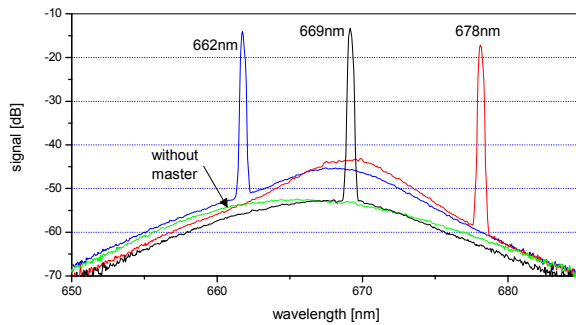


Serval Series: TEC-400-670-0500



Description:

The TEC-400-670-0500 Tapered Amplifier is designed for the amplification of diode lasers up to 500mW. This system is designed as a cost effective solution for customers who already use their own external cavity diode laser system. It is an easy to handle add-on unit for upgrading the output power by up to a factor of hundred.



lower wavelength limit 662nm

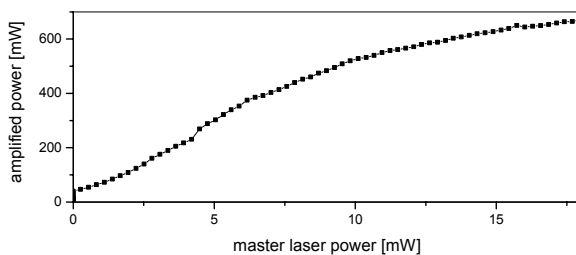
power: 400mW

center wavelength 670nm

power: 600mW

upper wavelength limit 678nm

power: 300mW

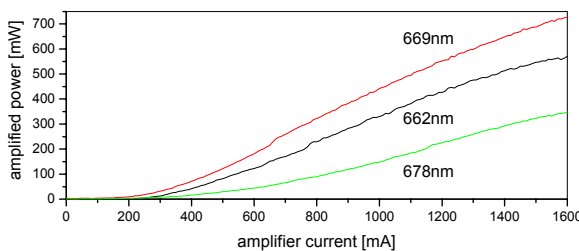


amplified power vs. master power:

wavelength: 670nm

constant slave current: 1.6A

master power for saturation: >12mW



output power characteristic:

wavelength: 662nm / 669nm / 678nm

master power: 15mW

Specification: output power	> 500mW with master power > 12 mW
beam profile	elliptic 1:2
mode profile M^2	$M^2 < 1.7$, depending on master laser
beam divergence	< 2 mrad
polarization	linearly, > 100:1
linewidth	depending on master laser
side mode suppression	depending on master laser
coarse tuning range	> 15nm

Document: <http://data.sacher-laser.com/serval/se06700500.pdf>

Note: Specification are subject to change without further notice

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