

NEW

808nm Pump Lasers

500W in TO-can

A brand new product in this series is the ML520G12, which provides 500mW CW power at 700mA operating current. The package is a 5.6mm TO-can

Features:

- high power
- high reliability

Applications:

- Nd:YAG pumping
- direct use

1W in TO-can

The new ML561F10-01 is a 1W (CW) laser in a 10.5mm TO-can. Because of the very high efficiency, the laser needs an operating current of just 1.2A to supply 1W optical output power. In order to ensure very high lifetime/reliability, Mitsubishi chose an Al-free single quantum well layer which prevents Catastrophic Optical Damage (COD) even at very high output power. The MTTF at 1200mA is estimated at 50.000 hours.

Laser Bars

For higher output power there is a high efficiency semiconductor laser bar with 49 emitters (fill factor 40%) which provides a stable oscillation with emission wavelength of 807nm (typ) and standard CW output of 40W. It has a small internal loss which allows a very high slope efficiency of 1W/A (reduction of operating current).

Features:

- bar and single emitter
- high slope efficiency

Applications:

- Nd:YAG laser pumping
- medical
- DVD mastering
- aesthetics (hair removal)

