Using the PL530 Laser and Heater Driver Board

Without TEC and Thermistor

The PL530 laser and heater driver board is designed specifically for the Osram PL530 green laser, featuring TEC driver temperature-controlled circuits that ensure optimal performance of the 530 nm SLM light source. In the event that the TEC temperature goes out of control, the laser is automatically disabled to prevent damage.

For certain users, incorporating a TEC and thermistor into the laser assembly may pose a challenge. Nevertheless, if users opt to employ solely the laser and heater drivers, excluding the TEC and thermistor, the temperature protection circuits can be bypassed by shorting J4, indicated in the image by the encircled red line

When J4 is shorted, the LED indicator will stay red, yet the laser and heater can still be activated. To avert overheating of the laser diode, it's crucial to employ a sizable heatsink to adequately cool the laser.

Using the driver board without the TEC and thermistor is not recommended for users; its purpose is solely for users to swiftly assess their lasers and produce brief intervals of green light.

Short J4 to bypass the temperature protection to enable laser and heater

