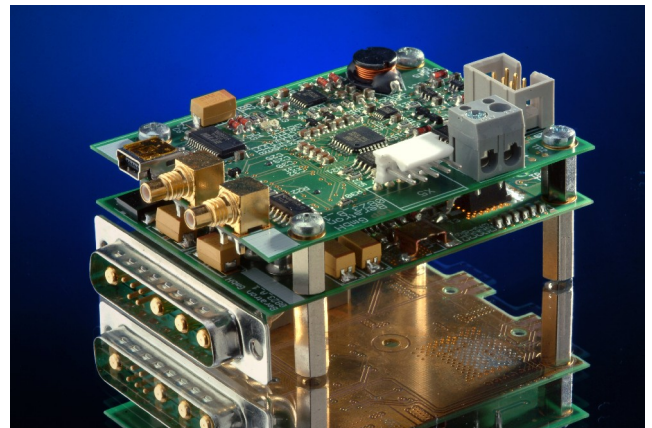


**40 A CW/QCW Driver
2 x 10 Ampere TEC Driver
USB – Interface
ext. Trigger
Sensor system
Ideal for OSRAM SIRILAS**



The SMD regulator 0823 was designed under customers specifications.

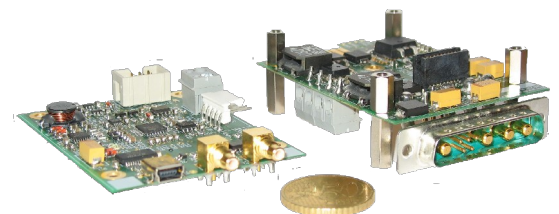
The application is a μ Slab-Laser, which can be assembled by a robot.

The driver delivers 40 A in CW or QCW mode on 2.5 V load. The two independent TEC drivers deliver 10 A on 24 V each.

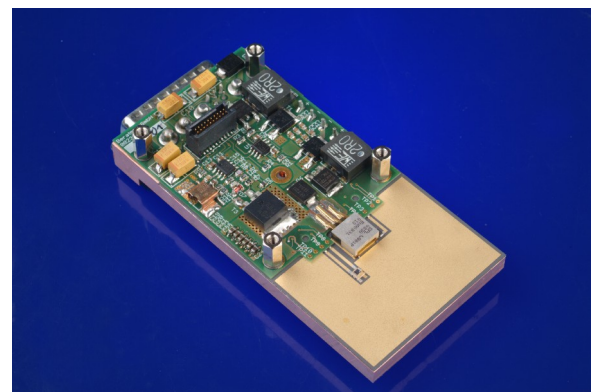
For analysis of the laser two photodiode inputs as well as four temperature inputs are designed into the driver.

Likewise integrated is an interface for a pockels-cell driver of the company Behlke.

The driver can be controlled via an USB-interface or a simple analogue interface.



Picture 1: Components in relation to a coin



Picture 2: Driver with OSRAM SIRILAS on ceramic

SMD regulator 0823 customer application



Output current	40 A CW or QCW
Load voltage	Max. 2.5 V
TEC driver	2 x 10 A / 24 Volt with independent regulators
Supply	24 V / 20 A and 3.3 V / 40 A
Edges (10% - 90%; 90% - 10%)	Rise and Fall < 40 μ s
Pulseduration	> 100 μ s
Dimension and implementation	Two PCB mounted over each other, each 55 x 70 mm ²
Cooling	The lower PCB has to be mounted on a cooling-plate
Interlock	Close contact
External trigger	2 x TTL inputs, 2 x TTL outputs (also usable as SPI bus)
Photodiode-inputs	2 x trans-impedance
Temperature-inputs	4 x 10K NTC
Q-Switch	5 V supply with trigger
Analoge interface	1 x analoge output, 1 x analoge input