

Q-MACS Basic LHCW

QCL Driver Solutions



technical specification

The Q-MACS Basic LHCW is a very compact laser driver module, which provides a comfortable way to control continuous wave Quantum-Cascade-Lasers in optical setups. Therefore various solutions exist allowing the work with various common packages as TO-3, TO-66 and Butterfly respectively.

The Q-MACS Basic LH CW incorporates a temperature controller and a low noise current driver by maintaining a handy form factor.

general

description	compact, highly flexible QCL driver for continuous wave lasers
dimensions	80 mm x 40 mm x 25 mm* * without fittings and package socket
weight	150 g
components	- package socket - temperature controller - DC current driver
package versions	TO-3 TO-66 Butterfly

current driver

maximum current	400 mA (300 mA, 200 mA or 100 mA)* * configured on delivery
bandwidth	10 MHz (1 MHz, 100 kHz, 10 kHz or 1 kHz)* * configured on delivery

temperature controller

temperature range	-25* to 40 °C * heat removal via water cooler needed
TEC voltage	≤4.2 V
TEC current	≤2.8 A
operation	exclusive heating or cooling* * configured on delivery
security features	overheat protection circuit

supply unit

plug adapter	- analog input for waveform input - manual temperature setting via screw
Q-MACS SC	- high performance single channel controller - arbitrary function generator - USB communication
Q-MACS SC OEM	- customized single channel controller - triangular function generator - analog in-/output for temperature - digital clock input
Q-MACS MC	- high performance multiple channel controller - arbitrary function-generators adapted to synchronization - USB communication

