



Q-MACS Basic LH3-II

The Q-MACS Basic LH3 II is a laser head, which enables to drive TO-3 packaged QCL by the Q-MACS Basic MC and Q-MACS BasicSC Supply. It provides all necessary power signals to control pulsed and continuous wave QC laser in a compact and robust laser driver system. The possibility of water cooling is provided for heat dissipation.

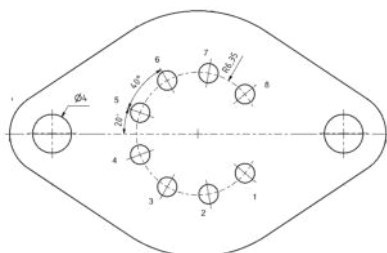


general

dimensions	80mm x 40mm x 25mm (without fittings, TO3 and connector)
weight	150g
cw current	up to 800 mA
QCL	TO-3 package (supported TO3 pinout)

supported TO-3 pinout

- 1 TEC +
- 2 thermistor
- 3 thermistor
- 4 negative contact of the laser
- 5 positive contact of the laser
- 6 not connected
- 7 not connected
- 8 TEC -



pulse driver

supply voltage	+10V
QCL voltage	max. 16V
QCL pulse current	max. 8A
Pulse frequency	defined by external signal up to 5 MHz (recommended hardware: Q-MACS MC/SC supply)
pulse width	defined by external signal usually max. 256ns (recommended hardware: Q-MACS MC/SC supply)

temperature controller

TEC voltage	max. 4.3V
TEC current	max. ±3A
QCL temperature range	-25°C to +40°C
heat sink	air or water cooling