Q-MACS Basic 1.5 TO8



technical specification

The Q-MACS Basic 1.5 TO8 is an advanced QC Laser driver system for absorption spectroscopic applications. The Q-MACS Basic 1.5 TO8 has nearly the same functionality as the Q-MACS Basic but with a very small laser head. It can be utilized for research and industrial purposes. The Q-MACS Basic 1.5 consists of the compact QC laser head, a power supply and a cable connection. It comes with a special control software (Q-MACSoft 2.0) to drive the QCL and monitor your process.

head	dimensions	25 mm x 25 mm x 50 mm [1]
	weight	62 g [1]
	connectors	Binder RD08 Serie 711 SMA
	1 TEC(-) 9 Thermistor 2 n.c. 10 Thermistor 3 n.c. 11 n.c. 4 TEC(+) 12 n.c. 5 LD(+) 13 LD(-) 6 LD(+) 14 LD(-) 7 LD(+) 15 LD(-) 8 LD(+) 16 LD(-)	12 11 10 9 13
	tested TO-8 QCL	Laser Components, nanoplus
pulse driver	supply voltage	+9 V
	QCL voltage	0 – 15 V
	QCL current	max. 2 A
	frequency	1 Hz – 1 MHz
	pulse width	10 ns - 1000 ns
temperature controller	max. TEC voltage	1.8 V
	max. TEC current	±1.5 A
	QCL temperature range	-20 °C to +30 °C
	heat sink	air or water cooling

^[1] without additional heat sink