



LG Laser Technologies supply high quality OEM diode laser modules with output from 635nm-1060mW.

The modules are designed both for industrial and scientific applications and are supplied with optics for  $M^2 = 1.2$  with a K1 lens to allow for class 3B operation.

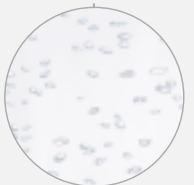
**FEATURES:**

- Standard Modules(635nm-1550nm)
- Miniature Lasers (635nm-780nm)
- Round Beam Profile (635nm-785nm)
- Temperature Controlled System (635-1060nm)
  - Temperature Controlled
  - Extremely Low Noise Level (<0.5%)
  - High power stability (<0.5%)
  - Round Beam Profile (390-410nm)

Modular construction allows a customisable system to meet all your requirements.

**OPTIONS:**

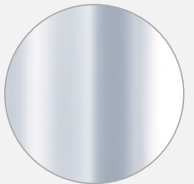
- Pigtail Coupling or FC/ST plug
- Single Mode/Multi-mode
- Peltier Temperature Stabilisation
- Digital control of current, temperature and power
- External TTL Modulation 0-20MHz
- Internal Quartz Modulation 0-10MHz
- Rise/Fall Time 2nS
- Low Noise
- No Speckle
- Line Optics
- Micro Lens correction of astigmatism



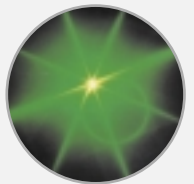
GAS SENSORS



ANALYTICAL INSTRUMENTS



LASERS AND ELECTRO-OPTICS



QUANTUM DIVISION





## SPECIFICATIONS

MODEL	WAVELENGTH (nm)	POWER (mW)	LASER CLASS
<b>LG670-5</b>	670	1.0/2.5*	2/OEM (3B)
<b>LG670-10</b>	670	5.0	OEM (3B)
<b>LG690-20</b>	690	12	OEM (3B)
<b>LG690-50</b>	690	25	OEM (3B)
<b>LG980-5</b>	980	2.7	OEM (3B)
<b>LG1300-10</b>	1300	5.5	OEM (3B)
<b>LG1550-5</b>	1550	2.7	OEM (3B)
<b>LG1550-10</b>	1550	5.5	OEM (3B)
<b>LG635-5</b>	635	1.0/2.5*	2/OEM (3B)
<b>LG635-10</b>	635	5.0	OEM (3B)
<b>LG635-15**</b>	635	8.0	OEM (3B)
<b>LG650</b>	650	1.0/2.5*	2/OEM (3B)
<b>LG650-5(70)</b>	650	1.0/2.5*	2/OEM (3B)
<b>LG658-35</b>	658	17	2/OEM (3B)
<b>LG780-5</b>	780	2.5	OEM (3B)
<b>LG780-10</b>	780	5.0	OEM (3B)
<b>LG780-30</b>	780	15	OEM (3B)
<b>LG780-35</b>	780	20	OEM (3B)
<b>LG780-40</b>	780	24	OEM (3B)
<b>LG780-80**</b>	780	40	OEM (3B)

\* The maximum power can be limited to 1 mW to achieve Laser Class 2.

**Optics**

K1 Lens with focus from 5 cm to infinity.

Special feature: A circular beam profile (Gaussian profile,  $M^2=1.2$ ) is produced using a special micro-lens.

**Mechanics**

Potential free brass housing with collimator optics: L = 40 mm,  $\varnothing$  12 mm

We can also supply different tailor-made modules for OEM applications.

**Supply Voltage**

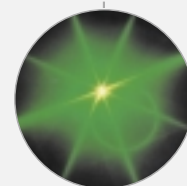
Standard: 5 VDC – 7 VDC

Optional (N): 2.7 VDC – 5 VDC

Optional (V): 5 VDC – 24 VDC

**Options**

- modulation up to 100 kHz
- fibre coupling
- external power regulation (analogue/digital)
- different collimator optics according to requirements



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