



- Fully populated OEM board with MOT5550GC or MOT6550GC laser driver modules.
- Very small size (72 x 51mm)
- It can easily be integrated into customer systems.
- Interface connector allows connection to the host system for control and configurations.
- User customizable, on-board or via external connections

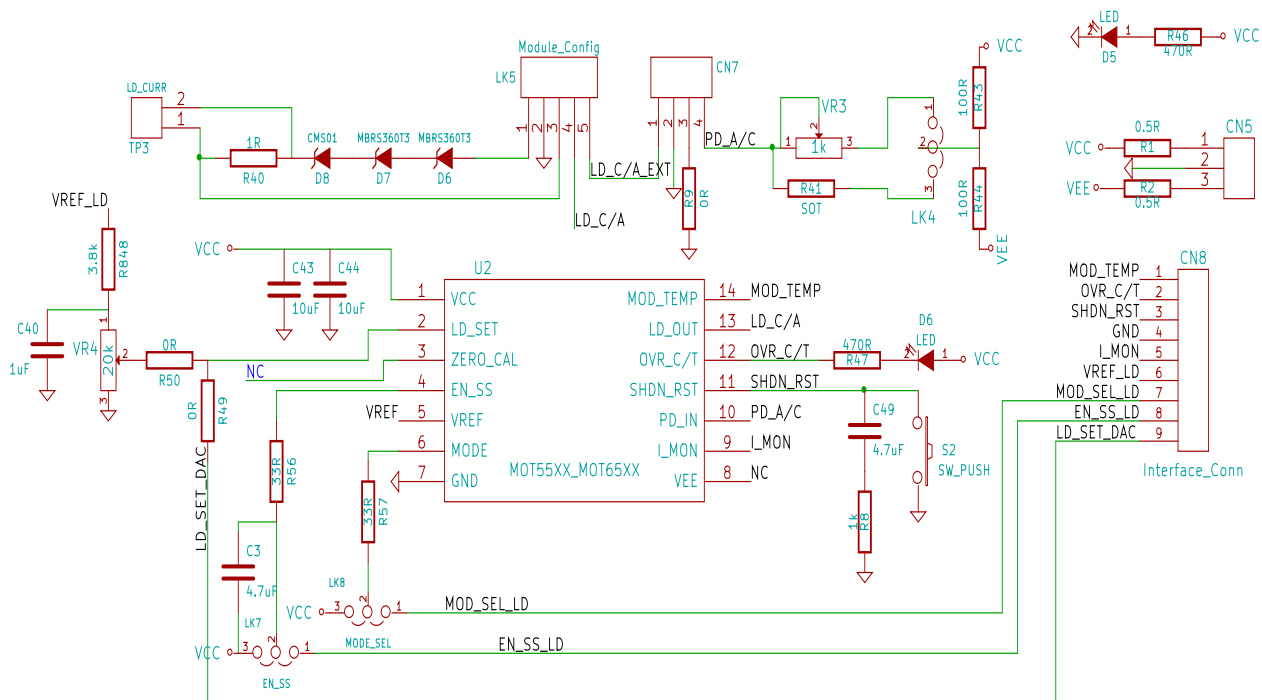


### Description

The MOT605\_OEM boards is a fully assembled OEM board ready to be integrated into your system. Connection points are provided on the edges of the board to directly wire connections to the power supply, Laser, and system host processor for external monitoring and control signals.

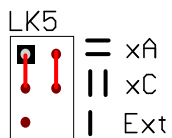
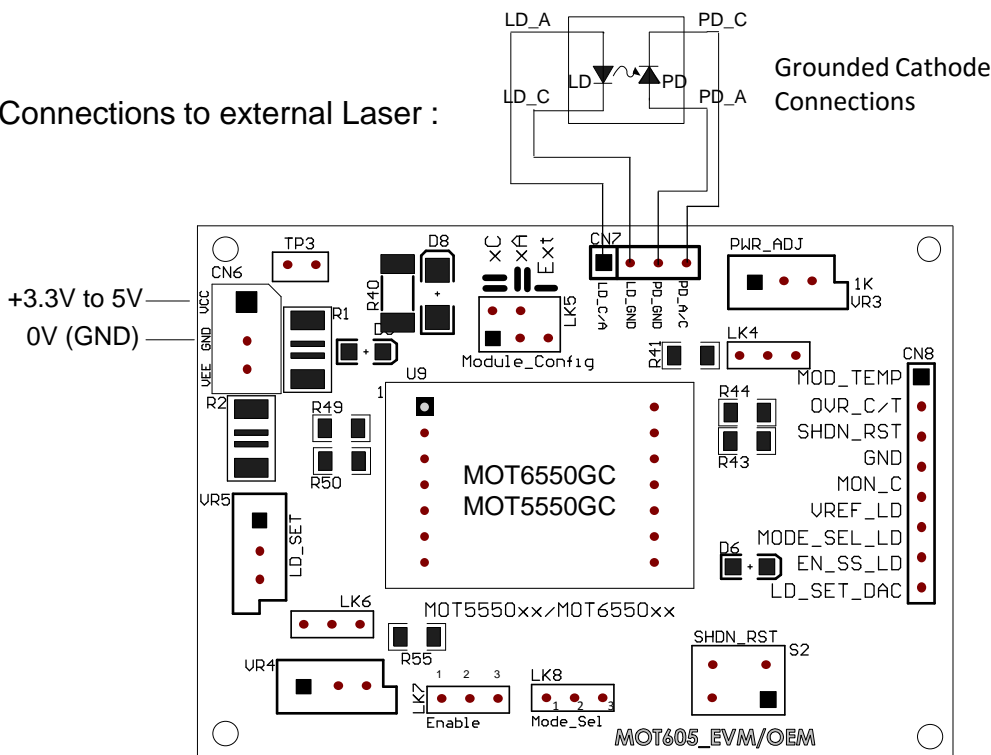
Please refer to the MOT5550xx & MOT6550xx datasheets for the electrical capabilities of the modules.

### Schematic

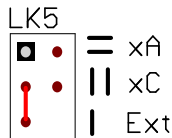




### Board Connections to external Laser :



LK5 Configured for GC modules Using Dummy load on board. Measure the voltage across the TP3. This voltage is equal to the current through the dummy load.



LK5 Configured for using External Laser

Modules are factory calibrated for the specified supply voltage and installed.

Use MOT6550GC data sheet to set up for constant power (CP) applications.

LK7 & LK8 are linked to connect to CN8 for external control.

VR4, LK6, and R55 are not used

Refer to MOT605\_EVM user guide for a comprehensive detail information.

When using LD\_SET\_DAC input install R49 and remove R50.

For Constant Current applications VR3, R41, R44, R43 and LK4 are not installed.

LK7: Enable Soft Start (EN\_SS). No link module is enabled.

Link between 1 & 2 to disable the module.

Link between 2 & 3 to allow microcontroller to control the module using CN8 pin "EN\_SS\_LD".

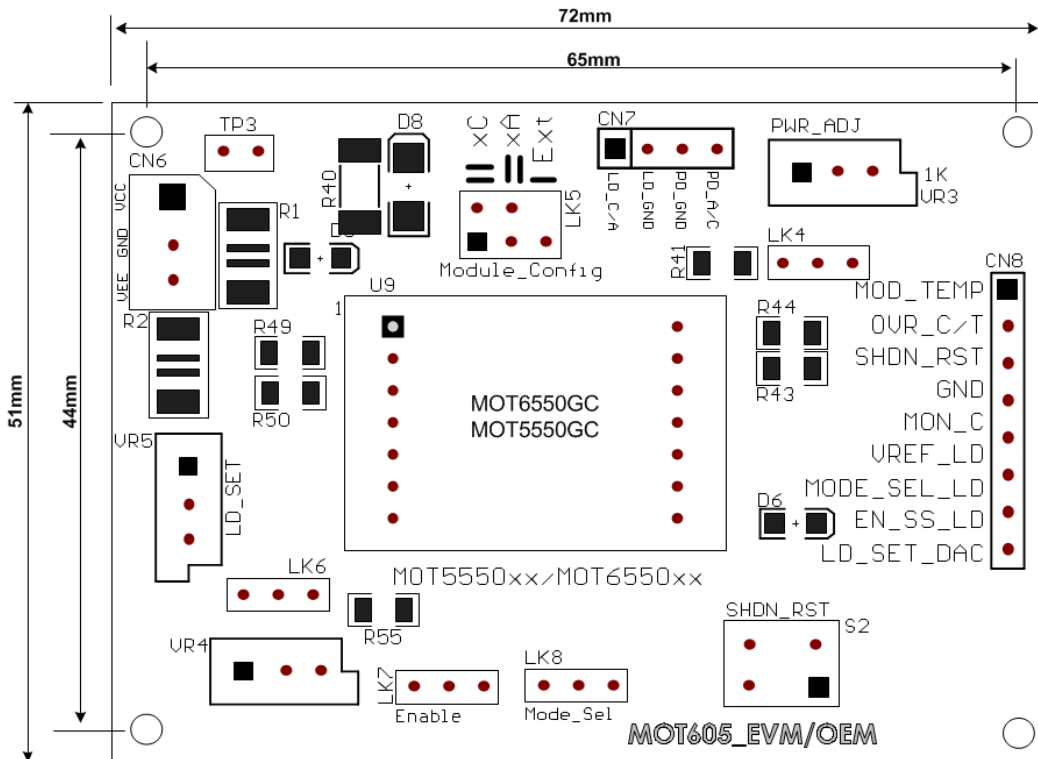
LK9: Mode Select. No link module is in constant current mode (CC).

Link between 1 & 2 for constant power (CP).

Link between 2 & 3 to allow microcontroller to control the module using CN8 pin "Mode\_SEL\_LD".



**Board Dimensions**



**Available Part #:**

Part #	Max. Output Current	Power Supply
MOT605_25GC_CC*	250mA constant current GC laser driver OEM board	Single
MOT605_50GC_CC	500mA constant current GC laser driver OEM board	Single
MOT605_100GC_CC	1000mA constant current GC laser driver OEM board	Single
MOT605_25GC_CP*	250mA dual mode GC laser driver OEM board	Single
MOT605_50GC_CP	500mA dual mode GC laser driver OEM board	Single
MOT605_100GC_CP	1000mA dual mode GC laser driver OEM board	Single

**Contact Information:**

Modular One Technology  
 5902 Wessex Court  
 Parker TX 75002

Phone: 214-566-3708  
 Email: [info@modularonetechnology.com](mailto:info@modularonetechnology.com)  
 Web: [www.modularonetechnology.com](http://www.modularonetechnology.com)