

In January 2005 Superlum released the new miniature package for cooled modules: MINICOOLBUT. Frame size of the package is 15x8.5x5.4 mm. New specially developed TE cooler has very good cooling efficiency and allows ΔT of 60 °C at +85 °C case (baseplate) temperature for up to 0.25 W heat load.

Using this new package and cooler Superlum opened new product line – “MINICOOLBUT” packaged SLDs, particularly medium power SLD-381-MINICOOLBUT modules at 830 nm with 0.5 mW or 1 mW output power and operating temperature range from -55 °C to 85 °C with excellent output power and spectrum stability.

MINICOOLBUT package style may be also used for packaging of other Superlum SLDs, for example with medium power SLD-26 at 680 nm, SLD-48-MP at 980 nm, SLD-56-MP at 1300 nm and SLD-76-MP at 1440 – 1600 nm; proper selection of driving current and SLD stabilization temperature allows stable up to 0.5 mW output power within the same -55 °C to +85 °C range.

If very wide operating temperature range is not required, particularly if upper operating temperature does not exceed 60 – 65 °C, MINICOOLBUT may be successfully used also for packaging of some high-power (“HP” categories) SLDs and broadband SLD series like SLD-37, 47 and 57.

Call us for more details now!

MINICOOLBUT package has two modifications: with and without flange, see outline drawings below.

MINICOOLBUT, TE COOLER PERFORMANCE EXAMPLES

ΔT vs cooler current and different heat loads and upper plate temperatures

