

LPF3550-ZHC Zhaga Pin Fin LED Cooler ø35mm

Mounting Instruction

The LPF3550-ZHC Pin Fin LED coolers are standard foreseen from a variety of mounting holes which allow direct mounting of LED engines, COB's and secondary optics on the LED heat sink.

In this way mechanical afterwork and related costs can be avoided, and lighting designers can standardize their designs on a limited number of LED coolers.

Below you find an overview of Zhaga LED modules and COB's which standard fit on the LPF3550-ZHC Pin Fin LED cooler.

MechaTronix performs thermal validation tests on each of the LED modules mounted on the LED cooler and publishes this data in the LED brand thermal validation reports.

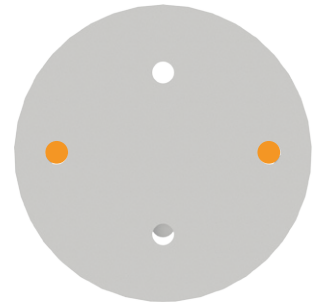
For more details about the required mounting holes and thermal results for your specific LED brand and model, please refer to the brand LED cooler mounting instruction and the overview. For further mechanical modifications please contact MechaTronix.

Zhaga

The Zhaga Consortium is developing specifications that enable the interchangeability of LED light sources made by multiple different manufactures. The Zhaga specifications, known as Books, describe the interfaces between LED luminaires and LED light engines. Zhaga's members include hundreds of companies from throughout the global lighting industry. The cooperation is governed by a consortium agreement that defines rules regarding confidentiality, intellectual property and decision making.

Mounting indicator marks overview

MechaTronix recommends the use of a high thermal conductive interface between the LED module and the LED cooler. Either thermal grease, a thermal pad or a phase change thermal pad thickness 0.1-0.15mm is recommended. Thermal pads or phase change thermal pads can be pre-applied from MechaTronix.



Zhaga Book 11 Spot Light Modules

Zhaga Interface Specification Book 11 defines the interfaces of LED light engines (LLEs) comprising a circular, non-socketable LED module with a separate LED driver (electronic control gear). The LED modules in Book 11 have an overall diameter of 35 mm and a height of 3.5 mm. Zhaga Book 11 LED modules are mounted by 2 M3 screws evenly located on diameter of 25mm on the LED cooler. There are three LLE categories in Book 11, which are defined by the maximum diameter of the circular light-emitting surface (LES): 6.3 mm, 9.0 mm, 13.5 mm. Book 11 LLEs are suitable for spot-lighting and other applications that benefit from a small, circular source.



LED COB's for which Zhaga book 11 LED holders are available

- Bridgelux V10
- Citizen Citiled CLU026-CLU028
- Cree XLamp CXA / CXB 13xx
- Edison Opto HM05, HM09
- Lextar Nimbus 1500
- Osram Soleriq S13
- Prolight Opto PACE
- Seoul Semiconductor ZC6
- Sharp Mini Zenigata
- Tridonic TALEXXmodule SLE Gen5 06mm / 15mm, Gen 6 10mm

Mounting

- Direct mounting with 2 M3 screws
- Orange indicator marks