

LPF1180-ZHE Zhaga Pin Fin LED Cooler ø111mm

Mounting Instruction

The LPF1180-ZHE 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 LPF1180-ZHE 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.

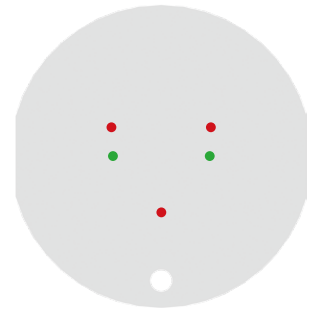
For more details about the required mounting holes and thermal results for your specific LED brand and model, please refer to the brand LED cooler mounting instruction and the overview. For further mechanical modifications please contact MechaTronix.



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 3 Spot Light Modules

Zhaga Interface Specification Book 3 defines the interfaces of LED light engines (LLEs) comprising a circular, non-socketable LED module with a separate LED driver (electronic control gear).

The circular LED modules in Book 3 have a typical diameter of 50 mm and a maximum height of 7.2 mm. Zhaga Book 3 LED modules are mounted by 2 M3 screws evenly located on diameter of 35mm on the LED cooler.

There are four LLE categories in Book 3, which are defined by the maximum diameter of the circular light-emitting surface (LES): 9 mm, 13.5 mm, 19 mm, 23 mm.

Book 3 LLEs are suitable for spot-lighting and other applications that benefit from a small, circular source.

Zhaga book 3 compliant LED Spot Light modules *1

- Edison Edilex SLM
- Osram PrevaLED CORE
- Philips Fortimo SLM
- Seoul Semiconductor ACrich3
- Sharp INTERMO
- Tridonic Talexx Stark SLE
- Vexica Lumaera
- Vossloh Schwabe Luga Shop

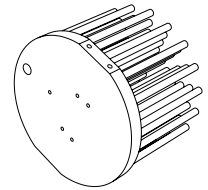
*1 This is a non-binding overview of available Zhaga book 3 LED modules at press

Zhaga Book 3 mounting through the use of LED holders and connectors

With the use of Zhaga Book 3 mechanical compatible LED holders, a wide variety of LED COB's can be mounted in the same way on these LED coolers.

Zhaga Book 3 compatible LED holders can be found from BJB, TE Connectivity (Tyco), Molex and Ideal Industries.





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Zhaga Book 3 Spot Light Modules

LED COB's for which Zhaga book 3 LED holders are available

- Bridgelux Gen7 V 18/22, Vesta Tunable White 9/13mm & Dim-To-Warm 15mm
- Citizen CitiLED CLU036 - CLU038, CLU046 - CLU048, CLU720 - CLU730
- Cree XLamp CXA / CXB 18xx, 25xx
- Edison Opto HM16, HM24, HM30, HM40
- Lextar Nimbus 2000, 3000, 5000
- LG Innotek LEMWM18 (10W, 13W, 17W, 24W), LEMWM28 (40W)
- Nichia NFCWL060-072B, NFCWD084-096B, NFCWJ108-120-130B, NVEWL016Z
- Osram Soleriq S19
- Lumileds Luxeon 1203, 1204, 1205, 1208, 1211 and 1216
- Prolight Opto PACF, PACG
- Samsung LC026, LC040
- Seoul Semiconductor ZC18, ZC25, ZC40
- Sharp Mega Zenigata and Tiger Zenigata
- Tridonic TALEXXmodule SLE Gen5 15mm

Mounting

- Direct mounting with 2 M3 screws
- Green indicator marks

Reflector ring Mounting

- This optional ring can be mounted on top of the Edison Opto EdiLex spot light module and provides in this way an easy plug-and-play attachment of various reflectors.
- Mounting with 3 screws M3 x 10mm
- Red indicator marks