ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Features & Benefits

- For low and high bay designs from 1,600 to 10,000 lumen
- Thermal resistance range Rth 0.67 1.32°C/W
- Modular design with mounting holes foreseen for a wide range of LED modules and COB's:
 - Zhaga Book 3 Spot Light Modules Edison Edilex SLM, Osram PrevaLED Core Z3 / Z4, Philips Fortimo SLM, Sharp INTERMO, Tridonic Talexx Stark SLE G3 / G4, Vossloh Schwabe Luga Shop, ...
 - Bridgelux BXRA ESR, Vero & Décor Vero 10/13/18/29, V-series
 - Citizen Citiled CLL032-CLU034, CLL042-CLU044, CLL052-CLU054
 - Cree XLamp CXA18, CXB18, CXA25, CXB25, CXA30, CXB30
 - Edison EdiPower II HM16, HM30, HM40
 - GE Infusion M, DLM, NPM series LED module
 - LG Innotek LEMWM18 17W, 24W, LEMWM28 40W
 - Lumileds Luxeon 1205, 1208, 1211, 1216
 - Lustrous Lustron LL613F, LL620F, LL660D
 - Osram PrevaLED Cube, Osram Soleriq P13, S19, E30
 - Philips Fortimo DLM Gen5
 - Prolight Opto PACF, PACG, PABA, PACC, PACD
 - Seoul Semiconductor ZC40, ZC60, ZC100
 - Sharp Mega Zenigata, Tiger Zenigata
 - Tridonic Talexx Stark SLE GEN3 Mini LES-17, DLE GEN2 LES-65, FLE GEN1
- Diameter 134mm Standard height 20 / 50 / 100mm Other heights on request
- Extruded from highly conductive aluminum



Order Information



Example : ModuLED Mega 134100-B
ModuLED Mega 134 1 - 2
1 Height (mm)
2 Anodising Color

B - Black C - Clear

ModuLED Mega is designed in this way

that you can mount LED modules from various manufacturers on the same LED cooler Simple mounting with self tapping screws Recommened screw force 6lb/in Screws are avaliable from MechaTronix

MechaTronix

ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Product Details







ModulED Mega 13420 ModuLED Mega 13450 ModuLED Mega 134100 Model n° Dimension (mm)^{*1} ø134 x h20 ø134 x h50 ø134 x h100 Volume (mm³) 170110 283564 567200 103850 165446 319435 Cooling Surface (mm²) 459 766 1531 Weight (gr) Thermal Resistance (°C/W)^{*2} 1.32 0.88 0.67 Power Pd (W)*3 38 57 75 **Heat Sink Material** AL6063-T5 AL6063-T5 AL6063-T5

*1 3D files are avaliable in ParaSolid, STP and IGS on request

*2 The thermal resistance Rth is determined with a calibrated heat source of 30mm x 30mm central placed on the heat sink, Tamb 40° and an open environment. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C The thermal resistance of a LED cooler is not a fix value and will vary with the applied dissipated power Pd

*3 Dissipated power Pd. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C The maximal dissipated power needs to be verified in function of required case temperature Tc or junction temperature Tj and related to the estimated ambient temperature where the light fixture will be placed Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module

To calculate the dissipated power please use the following formula: Pd = Pe x (1-nL)

- Pd Dissipated power
- Pe Electrical power
- η L = Light effciency of the LED module

Notes:

- MechaTronix reserves the right to change products or specifications without prior notice.
- Mentioned models are an extraction of full product range.
- For specific mechanical adaptations please contact MechaTronix.



ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Mounting Options

The ModuLED Mega modular passive 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 LED modules and COB's which standard fit on the ModuLED Mega LED cooler.

The ModuLED Mega is probably the most complete standard LED cooler with regards to mounting possibilities of Zhaga and the latest generation of COB LED modules.

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 datasheets under "Brand Products" and the brand LED cooler overview under the "Download" menu.

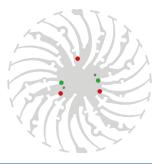
Zhaga



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 preapplied from MechaTronix.



Zhaga Book 3 Spot Light Modules

Zhaga Interface Specification Book 3 defines the interfaces of a type-D LED light engine (non-socketable LED module with separate electronic control gear). The LED light engine LLE has a round disc shape with a maxium height of 7.2 mm and a typical diameter of 50 mm. It is suitable for spot-lighting and other applications that benefit from a small, circular source. Book 3 specifies a circular light-emitting surface (LES) that can have a range of diameters, namely 9 mm, 13.5 mm, 19 mm and 23 mm.



Zhaga book 3 compliant LED Spot Light modules *1

- Edison Edilex SLM
- Osram PrevaLED CORE
- Philips Fortimo SLM
- 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 compatiable LED holders can be found from BJB, TE Connectivity (Tyco), Molex and Ideal Industries.



ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Mounting Options

Zhaga Book 3 Spot Light Modules

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

- Bridgelux V15, V18, ES rectangular LED array
- Citizen CitiLED CLL032, CLU034, CLL042, CLU044
- Cree XLamp CXA18xx, CXA25xx, CXA30xx
- Edison Opto HM16, HM30, HM40
- Lextar Nimbus 2000, 3000
- LG Innotek LEMWM18 (10W, 13W, 17W, 24W), LEMWM28 (40W)
- Lustrous Lustron LL613F, LL620F, LL630F, LL630D, LL660D
- Nichia J216, J360, L110, L121, L204
- Osram Soleriq P13, S13, S19, E30
- Lumileds Luxeon 1203, 1204, 1205, 1208, 1211 and 1216 Luxeon K12 and K16
- Prolight Opto PABA, PACC, PACD, PACF, PACG
- Samsung LC026, LC040
- Seoul Semiconductor ZC12, ZC18, ZC25, ZC40, ZC60
- Sharp Mega Zenigata and Tiger Zenigata
- Tridonic Talexx Stark SLE Gen3 Mini LES 17

Mounting

• Direct mounting with 2 self tapping screws M3 x 6mm 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 self tapping screws M3 x 10mm
- Red indicator marks

Zhaga Book 10 Spot Light Modules

Zhaga Interface Specification Book 10 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 10 have an overall diameter of 75 mm and a height of 8 mm. Zhaga Book 10 LED modules are mounted by 3 M3 screws evenly located on diameter of 65mm on the LED cooler. There are three LLE categories in Book 10, which are defined by the maximum diameter of the circular light-emitting surface (LES): 23 mm, 30 mm, 40 mm

Book 10 LLEs are suitable for spot-lighting and other applications that benefit from a small, circular source.

Zhaga Book 10 compliant LED Spot Light modules Zhaga Book 10 is not officially release yet, although we have foreseen already the mounting holes for future Zhaga compliant LED modules and holders.

Mounting

- Direct mounting with 3 M3 self tapping screws
- Red indicator marks

No.818, Dashun 2nd Rd., Sanmin Dist., Kaohsiung City 80787, Taiwan sales@mechatronix-asia.com www.led-heatsink.com www.mechatronix-asia.com Tel: +886-7-381-5892 Fax: +886-7-383-9293 VAT: 28600841





📆 Zhaga

ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Mounting Options

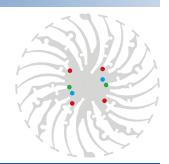
Bridgelux LED Arrays

brídgelux

Bridgelux is a leading provider of high power, cost effective and energy efficient light emitting diode (LED) solutions. Leveraging patented light source technology, Bridgelux LED Arrays replace traditional technologies (such as incandescent, halogen, fluorescent and high intensity discharge lighting) with integrated solid state light sources enabling high performance and energy-efficient products for the general lighting market.

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 preapplied from MechaTronix.







Bridgelux Vero 18 LED Array

Model names

- Vero 18 BXRC-27x4000
- Vero 18 BXRC-30x4000
- Vero 18 BXRC-35E4000
- Vero 18 BXRC-40E4000
- Vero 18 BXRC-50C4000

Bridgelux Vero 29 LED Array

Model names

- Vero 29 BXRC-27x10K0
- Vero 29 BXRC-30x10K0
- Vero 29 BXRC-35E10K0
- Vero 29 BXRC-40E10K0
- Vero 29 BXRC-50C10K0

Mounting

• Direct mounting with 2 self tapping screws M3 x 6mm Blue indicator marks



- Mounting
- Direct mounting with 4 self tapping screws M3 x 6mm **Red indicator marks**



Bridgelux Décor Vero 18 LED Array

Model names

- BXRC-xxA4001-F-23 • BXRC-xxH4000-F-xx
- BXRC-xxE4000-F-04

• BXRC-56G4000-F-04

Mounting

· Direct mounting with 2 screws M3 x 6mm Blue indicator marks



ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Mounting Options





ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Mounting Options

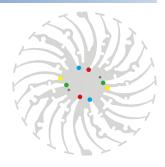
Citizen LED COB



Citizen Electronics Co., Ltd. Is a precision electronics manufacturer with headquarters in Fujiyoshida City, Yamanash Japan. Prefecture and a subsidiary of Citizen Holdings Co., Ltd. Citizen Electronics is a leader in LED light sources for electronic devices and high power white LED lamps. The second generation CITILED CLL LED COB modules and the new upcoming generation CLU distinguish themselves through the combination of high lumen per watt performance combined with a perfect light quality control.

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 preapplied from MechaTronix.







Citizen Citiled CLL032 - CLU034

Model names • CLL032-xxxx • CLU034-xxxx

Mounting

- Direct mounting with 2 self tapping screws M3 x 6mm **Red indicator marks**
- With Zhaga Book 3 LED holder
- BJB spotlight connector 47.319.2021
- Ideal Industries Chip-Lok[™] holder 50-2103CT
- TE Connectivity Lumawise type Z50 2213254-1
- TE Connectivity Lumawise type Z50 2213254-2
- Mounting with 2 self tapping screws M3 x 6mm Green indicator marks





Citizen Citiled CLL042 - CLU044

Model names • CLL042-xxxx • CLU044-xxxx

Mounting

- Direct mounting with 2 self tapping screws M3 x 6mm Blue indicator marks
- With Zhaga Book 3 LED holder BJB spotlight connector 47.319.2030 Ideal Industries Chip-Lok[™] holder 50-2204CT Mounting with 2 self tapping screws M3 x 6mm Green indicator marks





Citizen Citiled CLL052 - CLU054

Model names • CLL052-xxxx • CLU054-xxxx

Mounting

• Direct mounting with 2 self tapping screws M3 x 6mm Yellow indicator marks



ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Mounting Options

Cree XLamp LED Array

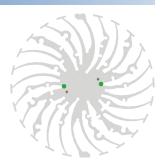


Cree XLamp[®] LEDs deliver the industry's best lighting-class performance and are application-optimized to enable the lowest system cost.

Cree's new CXA LED Arrays deliver high lumen output and efficacy in a family of single, easy-to-use components. Optimized to simplify designs and lower system cost, Cree's CXA LED arrays are available in system level performance from 300 to over 16,000 lumens and can enable applications ranging from GU10s and commercial downlights to outdoor area lighting and high-bay lighting.

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 preapplied from MechaTronix.







Cree XLamp CXA18 / CXB18 LED Array

- Model names
- CXA1816-xxxx
- CXB1816-xxxx
- CXA1820-xxxx
- CXB1820-xxxx
- CXA1830-xxxx
- CXB1830-xxxx
- CXA1850-xxxx

Mounting

- With Zhaga Book 3 LED holder
- BJB Spotlight connector 47.319.2131 (CXA/CXB1830 excluded) Ideal Industries Chip-Lok™ holder 550-2101CR TE Connectivity Lumawise type Z50 2213401-1 TE Connectivity Lumawise type Z50 2213401-2
- Mounting with 2 self tapping screws M3 x 8mm
- Green indicator marks





Cree XLamp CXA25 / CXB25 LED Array

Model names

- CXA2520-xxxx
- CXA2530-xxxx
- CXB2530-xxxx
- CXA2540-xxxx
- CXB2540-xxxx
- CXA2590-xxxx

Mounting

- With Zhaga Book 3 LED holder
- BJB Spotlight connector 47.319.2141
- Ideal Industries Chip-Lok™ holder 50-2102CR
- TE Connectivity Lumawise type Z50 2213407-1
- TE Connectivity Lumawise type Z50 2213407-2
- Mounting with 2 self tapping screws M3 x 8mm
- Green indicator marks



Cree XLamp CXA30 / CXB30 LED Array

- <u>Model names</u>
- CXA3050-xxxx
- CXB3050-xxxx
- CXA3070-xxxx
- CXB3070-xxxx

<u>Mounting</u>

- With Zhaga Book 3 LED holder
- BJB Spotlight connector 47.319.2151
- Ideal Industries Chip-Lok™ holder 50-2234C
- Mounting with 2 self tapping screws M3 x 8mm
- Green indicator marks



ModuLED Mega Modular Passive Star LED Cooler Ø134mm



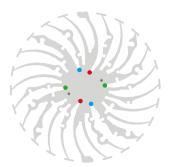
Mounting Options

Edison Opto LED Modules and COB's

Edison Opto with headquarters in Chung-Ho Dist, New Taipei City, Taiwan is a professional LED manufacture with specializes in designing and producing High-power LEDs, solid state lighting applications, LED sensors and SPDIFs. In response to rapid growth of capacity demand, Edison Opto has established factories in Dongguan and Yangzhou China and subsidiaries in USA and Germany. Edison Opto COB LED modules outstand in light quality and are available in the broadest lumen and CRI range available on the market.

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 preapplied from MechaTronix.



	Edison Opto Edipower II HM series			
	<u>Model Names 16W - 30W</u> • 2PHM16xxxx • 2PHM30xxxx	 Mounting Direct mounting with 2 self tapping screws M3 x 6mm Red indicator marks With Zhaga Book 3 LED holder BJB Spotlight connector 47.319.2021 Ideal Industries Chip-Lok™ holder 50-2103CT TE Connectivity Lumawise type Z50 2213254-1 TE Connectivity Lumawise type Z50 2213254-2 Mounting with 2 self tapping screws M3 x 6mm Green indicator marks 		
	Model Names 40W • 2PHM40xxxx	Mounting • Direct mounting with 2 self tapping screws M3 x 6mm Blue indicator marks • With Zhaga Book 3 LED holder BJB spotlight connector 47.319.2030 Ideal Industries Chip-Lok™ holder 50-2204CT Mounting with 2 self tapping screws M3 x 6mm Green indicator marks		





Edison Opto EdiLex Spot Light Module (SLM)

Model Names • 5PHR11xxxx • 5PHR22xxxx • 5PHV35xxxx

Mounting

 Direct mounting with 2 self tapping screws M3 x 10mm Green indicator marks



ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Mounting Options

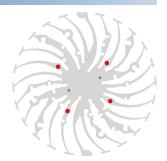
GE Lighting LED Modules



GE Infusion™ is a game-changing technology and one of the most flexible LED lighting solutions on the market. As a designer, OEM or end-users, you can choose from an extensive selection of modules. Plus, there's the assurance of GE reliability and performance.

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 preapplied from MechaTronix.







Infusion M-series Spot Light Modules

Model names • Infusion M3000 series • Infusion M4500 series

Mounting

- Twist and lock LED engine
- Mounting with GE LED collar by 4 self tapping screws M4 x 6mm or 8mm Red indicator marks



Infusion DLM-series Down Light Modules

Model names

- Infusion DLM3000 series
 Infusion DLM4000 series
- Mounting
- Twist and lock LED engine
- Mounting with GE LED collar by 4 self tapping screws M4 x 6mm or 8mm Red indicator marks



Infusion NPM-series Narrow Punch Modules

Model names

- MP30/827/W/N
- MP30/830/W/N
- MP30/930/W/N
- MP30/840/W/N

- Twist and lock LED engine
- Mounting with GE LED collar by 4 self tapping screws M4 x 6mm or 8mm Red indicator marks





ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Mounting Options

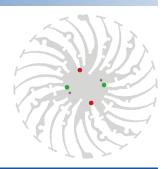
LG Innotek LED COB



LG Innotek is a global specialized material and component manufacturer who is making a better world through cutting edge core component technology that is leading the market and and opening a smarter future through the development of new eco-friendly materials. With the world's highest production capacity as a singlefactory and a solid LED business base built over more than a decade, LG Innotek's Paju LED factory produces 2 billion chips a month. Their LEMWM COB LED modules deliver a perfect lumen per watt ratio in an uncompromised lighting quality.

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 preapplied from MechaTronix.







LG LEMWM18 17W/24W COB

Model names • LEMWM18780xxxx • LEMWM18880xxxx

<u>Mounting</u>

• With Zhaga Book 3 LED holder BJB Spotlight connector 47.319.2080

Ideal Industries Chip-Lok™ holder 50-2100LG Mounting with 2 self tapping screws M3 x 8mm Green indicator marks





LG LEMWM28 COB

Model names • LEMWM28xxxx

- Direct mounting with 2 self tapping screws M3 x 6mm Red indicator marks
- With Zhaga Book 3 LED holder
- BJB Spotlight connector 47.319.2030
- Ideal Industries Chip-Lok™ holder 50-2204CT Mounting with 2 self tapping screws M3 x 8mm
- Green indicator marks





ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Mounting Options

Lumileds LED Array & COB

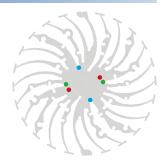
UMILEDS

The Brighter Choice

Lumileds LUXEON COB is a new breakthrough in efficacy for arrays. Due to its industry leading small Light Emitting Surfaces (LES), the COB array is very easy work with and will enable easier and less expensive designs. All LUXEON COBs are available in a single 3-step as well as a single 5-step MacAdam Ellipse, ensuring uniform optical performance in the application. Ideal applications include down lights and directional lamps.

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 preapplied from MechaTronix.







Luxeon COB 1205 - 1208

Model names • Luxeon COB LHC1-xxxx-1205 • Luxeon COB LHC1-xxxx-1208

Mounting

- Direct mounting with 2 self tapping screws M3 x 6mm Red indicator marks
- With Zhaga Book 3 LED holder
 BJB spotlight connector 47.319.2011
 Ideal Industries Chip-Lok™ holder 50-2100SH
 TE Connectivity Lumawise type Z50 2213130-1
 TE Connectivity Lumawise type Z50 2213130-2
 Mounting with 2 self tapping screws M3 x 8mm
 Green indicator marks





Luxeon COB 1211

Model names

Luxeon COB LHC1-xxxx-1211

Mounting

- Direct mounting with 2 self tapping screws M3 x 6mm Blue indicator marks
- With Zhaga Book 3 LED holder BJB spotlight connector 47.319.2030 Ideal Industries Chip-Lok™ holder 50-2204CT Mounting with 2 self tapping screws M3 x 8mm Green indicator marks





Luxeon COB 1216

Model names
• Luxeon COB LHC1-xxxx-1216

Mounting

- Direct mounting with 2 self tapping screws M3 x 6mm Blue indicator marks
- With Zhaga Book 3 LED holder
 BJB spotlight connector 47.319.2030
 Ideal Industries Chip-Lok™ holder 50-2204CT
 Mounting with 2 self tapping screws M3 x 8mm
 Green indicator marks



ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Mounting Options

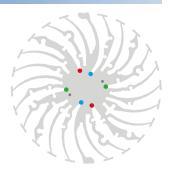
Lustrous LED COB



LUSTROUS unique Chip-on-Board (COB) packaging technology of High Power LED leads the core competence of LUSTROUS. COB packaging technology shows excellent thermal management and high efficiency performance. One of the benefits of COB is bright, uniform light output. The excellent low thermal resistance is achieved through state of the art COB technology on highly conductive substrates. This enables low junction temperatures at chip level for much higher efficiencies.

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 preapplied from MechaTronix.







Lustrous Lustron LL613F - LL620F LED COB

Model names • Lustron LL613F1206-xxx • Lustron LL620F1208-xxx

Mounting

- Direct mounting with 2 self tapping screws M3 x 6mm Red indicator marks
- With Zhaga Book 3 LED holder
 BJB spotlight connector 47.319.2021
 Ideal Industries Chip-Lok™ holder 50-2103CT
 Mounting with 2 self tapping screws M3 x 8mm
 Green indicator marks



Lustrous Lustron LL660D LED COB

Model names • Lustron LL660D1210-xxx

- Direct mounting with 2 self tapping screws M3 x 6mm Blue indicator marks
- With Zhaga Book 3 LED holder
 BJB spotlight connector 47.319.2030
 Ideal Industries Chip-Lok™ holder 50-2204CT
 Mounting with 2 self tapping screws M3 x 8mm
 Green indicator marks





ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Mounting Options

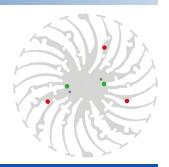
Osram PrevaLED LED Modules



With the PrevaLED Core and PrevaLED Core AC, Osram leads the path of versatile LED light modules interchangeable according Zhaga book 3 specifications. With an initial color binning below 3 steps Mc Adam, a wide range of lumen packages from 1.100lm all the way up to 5.000lm and a broad availability of color temperatures, the Osram PrevaLED Core found it's strive in high-end shop and down light applications with an uncompromised lighting quality.

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 preapplied from MechaTronix.







Osram PrevaLED Core Z3

Model names • PL-CORE-3000-xxx-Z3 • PL-CORE-5000-xxx-Z3

Mounting

• Direct mounting with 2 self tapping screws M3 x 10mm Green indicator marks



Osram PrevaLED Core Z4

Model names • PL-CORE-Z4-3000-xxx • PL-CORE-Z4-4500-xxx • PL-CORE-Z4-5000-xxx

Mounting

 Direct mounting with 2 self tapping screws M3 x 10mm Green indicator marks



Osram PrevaLED Cube G2

Model names • PL-CUBE-1100-xxx-0.35A-G2 • PL-CUBE-2000-xxx-0.5A-G2 • PL-CUBE-3000-xxx-0.7A-G2

<u>Mounting</u>

• Direct mounting with 3 self tapping screws M3 x 10mm Red indicator marks





ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Mounting Options



Osram PrevaLED Cube AC

Model names • LEP-CUB-AC-xxx-G1 • PL-CUBE-AC-2000-xxx-G2 • PL-CUBE-AC-3000-xxx-G2

Mounting

 Direct mounting with 3 self tapping screws M3 x 10mm Red indicator marks

Osram Opto Semiconductors LED COB



Osram SOLERIQ [®] LEDs are designed to meet the requirements of professional indoor general lighting applications. Large flux output, small light emitting surfaces, variation, CRI greater than 80 and easy to use Chip-on-Board technology support easy and creative lighting design. These properties make SOLERIQ [®] LED COB modules a high efficient, high-quality and price-performance-optimized solution for all demanding and at the same time cost-conscious lighting manufactures and designers.

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 preapplied from MechaTronix.







Osram Soleriq P13 LED COB

Model names • GW MAGMB1.EM • GW MAGMB1.CM

Mounting

• With Zhaga Book 3 LED holder Ideal Industries Chip-Lok™ holder 50-2101CR Mounting with 2 self tapping screws M3 x 8mm Green indicator marks





Osram Soleriq S19 LED COB

Model names • GW-KAHLB1-xxxx

Mounting

• With Zhaga Book 3 LED holder

- BJB spotlight connector 47.319.2170
- TE Connectivity Lumawise type Z50 2213407-1 TE Connectivity Lumawise type Z50 2213407-2
- Mounting with 2 self tapping screws M3 x 8mm
- Green indicator marks



ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Mounting Options



Osram Soleriq E30 LED COB

Model names • GW KAJRB2.EM-STTQ-xxxx • GW KAJRB2.EM-TPTR-xxxx

Mounting

• With Zhaga Book 3 LED holder

- BJB spotlight connector 47.319.2090
- Mounting with 2 self tapping screws M3 x 8mm **Green indicator marks**

Philips LED Modules



The third Philips Fortimo LED SLM generation is the ideal solution for spot lighting fixtures and highly efficient compact down light luminaires. It is specifically designed for the retail market showcasing retail merchandise in bright and vivid light. This generation is equipped with new Chip-On-Board (COB) LED technology. This technology enables the creation of the most efficient point source Philips LED system available.

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 preapplied from MechaTronix.







Philips Fortimo SLM GEN3 / GEN4 LED Modules

Model names • Fortimo LED SLM 4000 G3 Fortimo LED SLM 4500 G3 • Fortimo LED SLM 4500 G4

Mounting

 Direct mounting with 2 self tapping screws M3 x 6mm Green indicator marks



Philips Fortimo DLM GEN5 LED Modules

Model names Fortimo DLM 3000 G5 • Fortimo DLM 5000 G5

Mounting

 Direct mounting with 3 self tapping screws M3 x 8mm **Red indicator marks**



ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Mounting Options

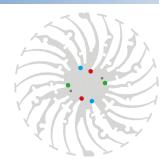
Prolight Opto LED COB's

Pro Light Opto Technology Corporation

Founded in October 2004, Prolight Opto Technology Corporation is a professional manufacturer of LED packaging, dedicated to the research, development, and manufacturing of mid-to-high-power, high reliability LED packages.Prolight Opto continually invests over 6% of sales revenue in R&D and patents.With own package patents from the US and Taiwan they insure a wide range of LED emitters in the smallest foot prints and COB LED modules with perfect thermal management and high density lumen output.

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 preapplied from MechaTronix.







Prolight Opto BI series PABA COB

Model names • PABA-35xxx-xxxx • PABA-50xxx-xxxx

Mounting

With Zhaga Book 3 LED holder
 BJB spotlight connector 47.319.2040
 Mounting with 2 self tapping screws M3 x 6mm
 Green indicator marks



Prolight Opto CF series PACF COB

Model names • PACF-57xxx-xxxx

<u>Mounting</u>

- Direct mounting with 2 self tapping screws M3 x 6mm Red indicator marks
- With Zhaga Book 3 LED holder
- BJB Spotlight connector 47.319.2021
- TE Connectivity Lumawise type Z50 2213254-1
- TE Connectivity Lumawise type Z50 2213254-2
- Mounting with 2 self tapping screws M3 x 6mm
- Green indicator marks

Prolight Opto CG series PACG COB

Model names

PACG-110xxx-xxxx

Mounting

- Direct mounting with 2 self tapping screws M3 x 6mm Blue indicator marks
- With Zhaga Book 3 LED holder
- BJB spotlight connector 47.319.2030
- Mounting with 2 self tapping screws M3 x 6mm
- Green indicator marks



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Mounting Options



Prolight Opto CII series PACC COB

Model names • PACC-18xxx-xxxx

Mounting

- Direct mounting with 2 self tapping screws M3 x 6mm Red indicator marks
- With Zhaga Book 3 LED holder
- BJB Spotlight connector 47.319.2021
- TE Connectivity Lumawise type Z50 2213254-1
- TE Connectivity Lumawise type Z50 2213254-2
- Mounting with 2 self tapping screws M3 x 6mm
- Green indicator marks





Prolight Opto CIII series PACD COB

Model names
• PACD-40xxx-xxxx

Mounting

- Direct mounting with 2 self tapping screws M3 x 6mm Blue indicator marks
- With Zhaga Book 3 LED holder
 BJB spotlight connector 47.319.2030
 Mounting with 2 self tapping screws M3 x 6mm
 Green indicator marks



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Mounting Options

Seoul Semiconductor LED COB

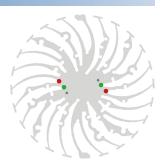


SEOUL SEMICONDUCTOR

The new Seoul Semiconductor ZC series Chip-On-Board (COB) LED Arrays offer high lumen density and efficacies of up to 140lm/W in a single, easy-to-use LED component family. Available in all major color temperatures from 2700K up to 6000K, these high flux packages deliver system level performance of 700 lumens to over 6,000 lumens. The new ZC series family is available in a single 3-step MacAdam Ellipse binning, ensuring excellent color consistency with minimum CRI options of 70, and 80 combining high quality of light with high efficacy.

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 preapplied from MechaTronix.







Seoul Semiconductor ZC 40 / ZC 60 LED COB

Model names • SDW05F1C • SDW85F1C • SDW95F1C • SDW06F1C • SDW86F1C • SDW96F1C

Mounting

With Zhaga Book 3 LED holder
 BJB spotlight connector 47.319.2030
 Ideal Industries Chip-Lok™ holder 50-2204CT
 Mounting with 2 self tapping screws M3 x 6mm
 Green indicator marks





Seoul Semiconductor ZC 100 LED COB

Model names

- SDW07F1C
- SDW87F1C • SDW97F1C

Mounting

 Direct mounting with 2 self tapping screws M3 x 6mm Red indicator marks



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Mounting Options

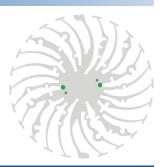
Sharp LED Modules & COB



Sharp Zenigata Chip on Board (COB) technology leverages 40 years of LED expertise to help your products outshine the competition with some of the highest brightness-per-watt in the industry. Sharp's new Mega Zenigata 50W – 80W modules take traditional, high-power lighting applications head on with power-saving LED alternatives. Sharp Devices Europe has launched an important new portfolio of LED modules dubbed INTERMO. The Standard INTERMO is a Zhaga Book 3 form-factor module, which ensures compatibility with a large eco-system of third-party products.

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 preapplied from MechaTronix.





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Sharp INTERMO Standard / Slim LED Modules

Model names

- GW7MMCxxGZC 3000 lm • GW7MGDxxGZC - 3000 lm
- GW7MMDxxGZC 4000 lm
 GW7MGExxGZC 4000 lm
- GW7MMExxGZC 5000 lm

Mounting

• Direct mounting with 2 self tapping screws M3 x 6mm Green indicator marks





Sharp Mega Zenigata 25-40W/35-50W/50-80W LED COB

- Model names • GW5DxCxxM04 • GW6DxCxxNFC
- GW6DxDxxNFC
- GW5DxExxMR5
- GW6DxExxNFC

- With Zhaga Book 3 LED holder
- BJB spotlight connector 47.319.2011
- Ideal Industries Chip-Lok™ holder 50-2100SH
- Mounting with 2 self tapping screws M3 x 6mm
- Green indicator marks





ModuLED Mega Modular Passive Star LED Cooler Ø134mm



Mounting Options



Sharp Tiger Zenigata 25W LED COB

Model names • GW6TGCBG40C

Mounting

• With Zhaga Book 3 LED holder

- BJB spotlight connector 47.319.2051
 - Mounting with 2 self tapping screws M3 x 6mm
 - Green indicator marks

Tridonic LED Modules and COB



With the TALEXX LED products Tridonic gives you the confidence that your chosen lighting solution will give you precisely the results you want. Thanks to Tridonic's many years of experience in product development they have been able to raise the quality of light from their LEDs to new levels. The production series have an exceptionally constant light color so they guarantee a uniform and crystal clear color appearance. In addition to high efficiency and balanced distribution of light Tridonic offers you impressive robustness in the latest generation of their products and the resultant long life will save you maintenance and repair costs.

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 preapplied from MechaTronix







Tridonic Talexx Stark SLE GEN3 SELECT / CLASSIC / FOOD / ART

Model names • STARK-SLE-G3-19-xxx • STARK-SLE-G3-23-xxx

Mounting

 Direct mounting with 2 self tapping screws M3 x 8mm Green indicator marks



Tridonic Talexx Stark SLE GEN3 Mini LES-17 SELECT / CLASSIC

Model names STARK-SLE-PURE-G3-17-xxx

Mounting

- Direct mounting with 2 self tapping screws M3 x 8mm **Red indicator marks**
- With Zhaga Book 3 LED holder
- BJB Spotlight connector 47.319.2021
- Mounting with 2 self tapping screws M3 x 8mm
- **Green indicator marks**



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Mounting Options

Tridonic Talexx Stark SLE GEN4 ADVANCE / EXCITE / ESSENCE

Model names

- STARK-SLE-G4-19mm-3000lm-xxx
- STARK-SLE-G4-23mm-5000lm-xxx
- STARK-SLE-G4-23-5000-xxx-PURE W/O-C

Mounting

- Direct mounting with 2 self tapping screws M3 x 8mm
- Green indicator marks





Talexx Stark DLE GEN2 CLASSIC / integrated Advanced

Model names • STARK-DLE-G2-LES65-xxxx • STARK-DLE-PURE-G2-LES65-xxxx

Mounting

• Direct mounting with 3 self tapping screws M3 x 8mm Blue indicator marks



Talexx Stark FLE GEN1

Model names • STARK-FLE-G1-30-xxx • STARK-FLE-G1-40-xxx

Mounting

• Direct mounting with 4 self tapping screws M3 x 6mm Yellow indicator marks

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Mounting Options

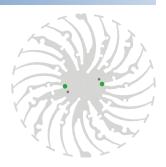
Vossloh Schwabe LED Modules



Vossloh-Schwabe is an independent brand within the Panasonic Group responsible for the global development of the business area "Components for light technology". Panasonic employs 367,000 members of staff with an annual turnover of 76.75 billion Euros (8692.7 billion yen) and is represented throughout the world by more than 634 companies or representations in Asia, America and Europe.The Vossloh Schwabe Luga Shop LED modules are ideal solution for high-end luminaire designs where quality stands at the first place.

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 preapplied from MechaTronix.







Luga Shop 2014 LED modules

Model names • WU-M-484 / WU-M-461 • WU-M-485 / WU-M-462 • WU-M-486 / WU-M-464

Mounting

• Direct mounting with 2 self tapping screws M3 x 10mm Green indicator marks



Luga Shop 2014 Kit LED COB

Model names • DMS128 • DMS158

- With Luga Shop Kit holder
- Mounting with 2 self tapping screws M3 x 6mm Green indicator marks

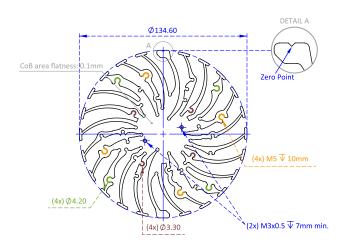


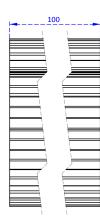


ModuLED Mega Modular Passive Star LED Cooler Ø134mm

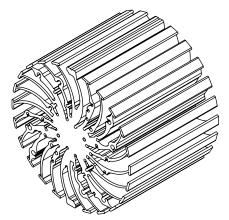


Drawings & Dimensions





Example: ModuLED Mega 134100



Thermal Data

Pd = Pe x (1-ηL)		the	t sink to amb ermal resista R _{hs-amb} (°C/W	nce	Heat sink to ambient temperature rise T _{hs-amb} (°C)		
		ModuLED Mega 13420	ModuLED Mega 13450	ModuLED Mega 134100	ModuLED Mega 13420	ModuLED Mega 13450	ModuLED Mega 134100
	10	1.70	1.20	-	17	12	-
	20	1.45	1.05	0.80	29	21	16
Pd(W)	30	1.37	0.97	0.77	41	29	23
r Pc	40	1.30	0.93	0.73	52	37	29
Power	50	1.26	0.90	0.70	63	45	35
d Pc	60	1.22	0.87	0.68	73	52	41
ate	70	-	0.84	0.67	-	59	47
Dissipated	80	-	0.83	0.66	-	66	53
Ö	90	-	0.81	0.64	-	73	58
	100	-	-	0.63	-	-	63

▼ Heat sink to ambient temperature rise T_{hs-amb} (°C)

ModuLED Mega 13420 ModuLED Mega 13450

70 60 50 40 30 20 10 **–** 10 20 30 40 50 60 70 80 90 100 Dissipated Power Pd (W)

----- ModuLED Mega 134100