ModuLED Giga Modular Passive Star LED Cooler ø152mm

Features & Benefits

- For low and high bay designs from 2,000 to 9,000 lumen
- Thermal resistance range Rth 0.7 - 1.13°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 Gen3, Seoul Semiconductor Acrich AC Zhaga, Sharp INTERMO, Tridonic TALEXXmodule SLE Gen3 / Gen4 / Gen5, Vossloh Schwabe Luga Shop, ...
  - Bridgelux BXRA ESR, Vero & Décor Vero 18/29, V-series
  - Citizen Citiled CLL032-CLU034-CLU036-CLU038, CLL042-CLU044-CLU046-CLU048, CLL052-CLU054, CLU710, CLU720, CLU730
  - Cree XLamp CXA18, CXB18, CXA25, CXB25
  - Edison EdiPower II / III HM24, HM30, HM40
  - GE Infusion M, DLM, NPM series LED module
  - LG Innotek LEMWM18 17W, 24W, LEMWM28 40W
  - Lumileds Luxeon 1205, 1208, 1211, 1216
  - Luminus CLM-22, CXM-22, CHM-22
  - Lustrous Lustron LL613F, LL620F, LL660D
  - Osram Soleriq P13, S19, E30
  - Philips Fortimo DLM Gen5
  - Prolight Opto PACF, PACG, PACC, PACD
  - Seoul Semiconductor ZC18, ZC25, ZC40, ZC60, ZC100
  - Sharp Mega Zenigata, Tiger Zenigata
  - Tridonic TALEXX Stark SLE series GEN3-19, -23, Mini LES-17, TALEXXmodule SLE GEN4 15/19/23mm, SLE GEN5 15/19/23mm, SLE GEN6 19/23mm, 17mm D50, DLE GEN2, GEN3 65mm and FLE GEN1-30
- Diameter 152mm - Standard height 20 / 50mm
  Other heights on request
- Extruded from highly conductive aluminum

Order Information

Zhaga · EDISON · OSRAM Opto Semiconductors · BJB · GE Lighting · PHILIPS · IDEAL · LG Innotek · ProLight Opto Technology Corporation · TE connectivity · Lit by LUMILEDS · SEOUL SEMICONDUCTOR · bridgelux · LUMINUS · SHARP · CITIZEN Micro HumanTech · LUSTROUS Green Technology of Lighting · TRIDONIC enlightening your ideas · CREE · OSRAM · LIGHTING SOLUTIONS

Example : ModuLED Giga 15250-B

ModuLED Giga 152 **1** - **2**

1 Height (mm)

2 Anodising Color
B - Black
C - Clear

ModuLED Giga is designed in this way that you can mount various LED modules on the same LED cooler

Simple mounting with self tapping screws

Recommened screw force 6lb/in

Screws are avaliable from MechaTronix

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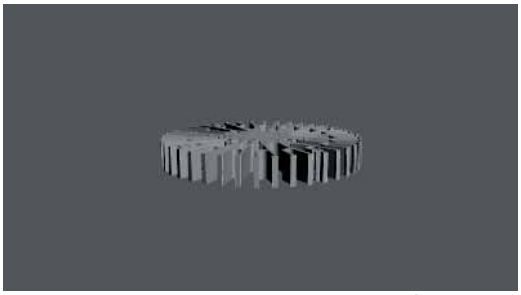
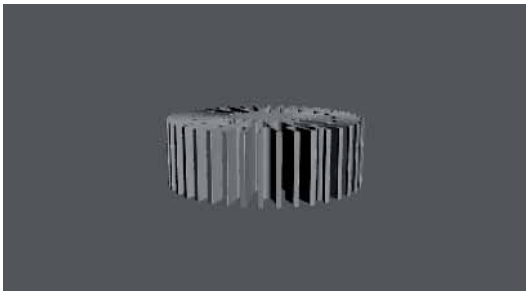
ModuLED Giga Modular Passive Star LED Cooler ø152mm

Product Details

Model n°	ModuLED Giga 15220	ModuLED Giga 15250
		
Dimension (mm)[*1]	ø152 x h20	ø152 x h50
Volume (mm^3)	116158	290965
Cooling Surface (mm^2)	83469	190296
Weight (gr)	314	786
Thermal Resistance (°C/W)[*2]	1.13	0.7
Power Pd (W)[*3]	44	71
Heat Sink Material	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-ηL)
Pd - Dissipated power
Pe - Electrical power
ηL = 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.

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ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

The ModuLED Giga 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 standard LED modules and COB's which standard fit on the ModuLED Giga LED cooler.

The ModuLED Giga 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.

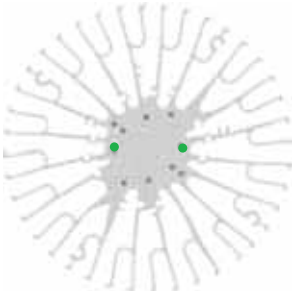
Zhaga

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 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
- 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 compatiable LED holders can be found from BJB, TE Connectivity (Tyco), Molex and Ideal Industries.

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ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

Zhaga Book 3 Spot Light Modules

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

- Bridgelux ES rectangular LED array
- Citizen CitiLED CLL032, CLU034, CLL042, CLU044
- Cree XLamp CXA18xx, 25xx, 30xx
- 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 S13, S19, E30
- Philips Lumileds Luxeon 1203, 1204, 1205 and 1208, Luxeon K12 and K16
- Prolight Opto PABA, PACC, PACD
- Samsung LC026, LC040
- Seoul Semiconductor ZC12, ZC18, ZC25, ZC40
- Sharp Mega Zenigata and Tiger Zenigata
- Tridonic Talexx Stark SLE Gen3 Mini LES 17

Mounting

- Direct mounting with 2 M3 screws
  Green indicator marks

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ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

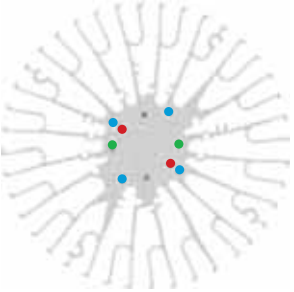
Bridgelux LED Arrays

bridgelux

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 pre-applied from MechaTronix.



Bridgelux Vero 18 & Décor Vero 18 LED Array

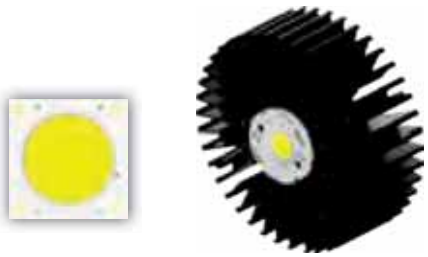
Model names
- Vero 18 BXRC-27x4000
- Vero 18 BXRC-30x4000
- Vero 18 BXRC-35E4000
- Vero 18 BXRC-40E4000
- Vero 18 BXRC-50C4000
- BXRC-xxA4001-F-23
- BXRC-xxH4000-F-xx
- BXRC-xxE4000-F-04
- BXRC-56G4000-F-04

Mounting
- Direct mounting with 2 screws M3 x 6mm
  Red indicator marks

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 4 screws M3 x 6mm
  Blue indicator marks



Bridgelux V series V 15 / V 18 LED Array

Model names
- V15 BXRE-xxx3001-D-xx
- V18 BXRE-xxx4000-F-xx

Mounting
- With Zhaga Book 3 LED holder
  BJB spotlight connector 47.319.2224
  Mounting with 2 screws M3 x 6mm
  Green indicator marks

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ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

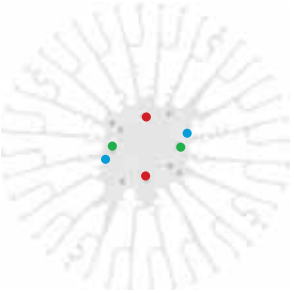
Citizen LED COB

CITIZEN
Micro HumanTech

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 pre-applied from MechaTronix.



Citizen Citiled CLL032 - CLU034 - CLU036 - CLU038

Model names
- CLL032-xxxx
- CLU034-xxxx
- CLU036-xxxxxx
- CLU038-xxxxxx

Mounting
- 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 screws M3 x 6mm
  Green indicator mark

Citizen Citiled CLL042 - CLU044 - CLU046 - CLU048

Model names
- CLL042-xxxx
- CLU044-xxxx
- CLU046-xxxxxx
- CLU048-xxxxxx

Mounting
- Direct mounting with 2 screws M3 x 6mm
  Red indicator marks
- With Zhaga Book 3 LED holder
  BJB spotlight connector 47.319.2033
  Ideal Industries Chip-Lok™ holder 50-2204CT
  Mounting with 2 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
  Blue indicator marks

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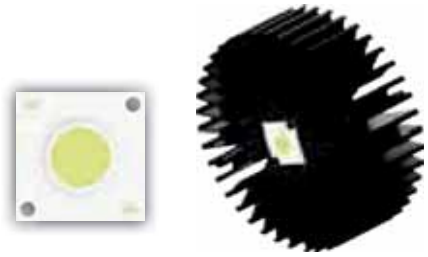
ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

Citizen Citiled High Intensity Type CLU710 - CLU720

Model names
- CLU710-1204B8
- CLU720-1206B8

Mounting
- 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 screws M3 x 6mm
  Green indicator marks



Citizen Citiled High Intensity Type CLU730

Model names
- CLU730-1210B8

Mounting
- Direct mounting with 2 screws M3 x 6mm
  Red indicator marks
- With Zhaga Book 3 LED holder
  BJB spotlight connector 47.319.2033
  Ideal Industries Chip-Lok™ holder 50-2204CT
  Mounting with 2 screws M3 x 6mm
  Green indicator marks

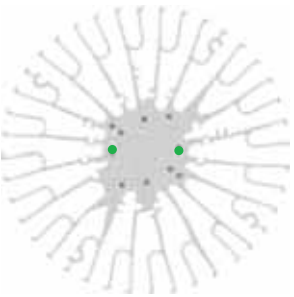
Cree XLamp LED Array

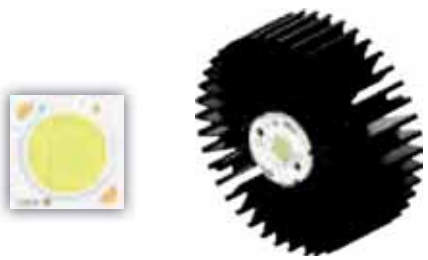
Cree XLamp® LEDs deliver the industry's best lighting-class performance and are application-optimized to enable the lowest system cost.

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 pre-applied 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 50-2101CR
  TE Connectivity Lumawise type Z50 2213401-1
  TE Connectivity Lumawise type Z50 2213401-2
  Mounting with 2 screws M3 x 6mm
  Green indicator marks

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ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

Cree XLamp CXA25 / CXB25 LED Array

Model names

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

Mounting

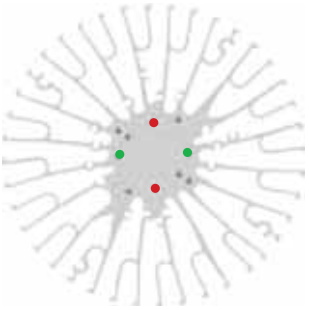
- With Zhaga Book 3 LED holder
  BJB Spotlight connector 47.319.2141
  Ideal Industries Chip-Lok™ holder 50-2102CR
  TE Connectivity Lumawise type Z50 2213407-1
  TE Connectivity Lumawise type Z50 2213407-2
  Mounting with 2 screws M3 x 6mm
  Green indicator marks

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 pre-applied from MechaTronix.



Edison Opto EdiPower II & EdiPower III HM series

Model Names 24W - 30W

- 2PHM24xxxx
- 2PHM30xxxx

Mounting

- 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 screws M3 x 6mm
  Green indicator marks

Model Names 40W

- 2PHM40xxxx

Mounting

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

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ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

Edison Opto EdiLex Spot Light Module (SLM)

Model Names
- 5PHR22xxxx
- 5PHV35xxxx

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

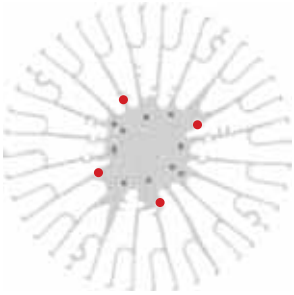
GE Lighting LED Modules

GE Lighting

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 pre-applied 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

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ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

Infusion NPM-series Narrow Punch Modules

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

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

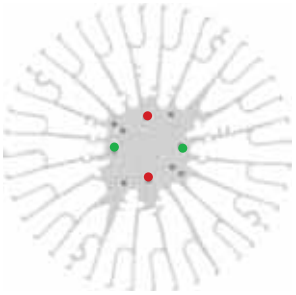
LG Innotek LED COB

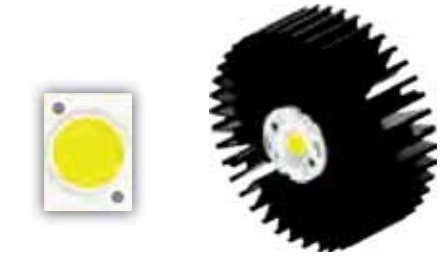
LG Innotek

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 single-factory 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 pre-applied from MechaTronix.

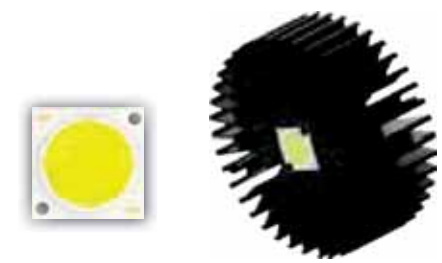




LG LEMWM18 17W / 24W COB

Model names
- LEMWM18780xxxx
- LEMWM18880xxxx

Mounting
- With Zhaga Book 3 LED holder
  BJB Spotlight connector 47.319.2080
  Ideal Industries Chip-Lok™ holder 50-2100LG
  Mounting with 2 screws M3 x 6mm
  Green indicator marks



LG LEMWM28 COB

Model names
- LEMWM28xxxx

Mounting
- Direct mounting with 2 screws M3 x 6mm
  Red indicator marks
- With Zhaga Book 3 LED holder
  BJB Spotlight connector 47.319.2033
  Ideal Industries Chip-Lok™ holder 50-2204CT
  Mounting with 2 screws M3 x 6mm
  Green indicator marks

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MechaTronix

ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

Lumileds LED Array & COB

Lit by LUMILEDS

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 pre-applied from MechaTronix.

Luxeon COB 1205 - 1208

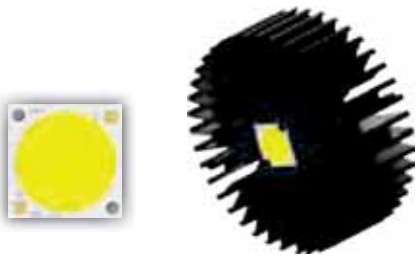
Model names
- Luxeon COB LHC1-xxxx-1205
- Luxeon COB LHC1-xxxx-1208

Mounting
- Direct mounting with 2 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 screws M3 x 6mm
  Green indicator marks

Luxeon COB 1211

Model names
- Luxeon COB LHC1-xxxx-1211

Mounting
- Direct mounting with 2 screws M3 x 6mm
  Blue indicator marks
- With Zhaga Book 3 LED holder
  BJB spotlight connector 47.319.2033
  Ideal Industries Chip-Lok™ holder 50-2204CT
  Mounting with 2 screws M3 x 6mm
  Green indicator marks



Luxeon COB 1216

Model names
- Luxeon COB LHC1-xxxx-1216

Mounting
- Direct mounting with 2 screws M3 x 6mm
  Blue indicator marks
- With Zhaga Book 3 LED holder
  BJB spotlight connector 47.319.2033
  Ideal Industries Chip-Lok™ holder 50-2204CT
  Mounting with 2 screws M3 x 6mm
  Green indicator marks

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MechaTronix

ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

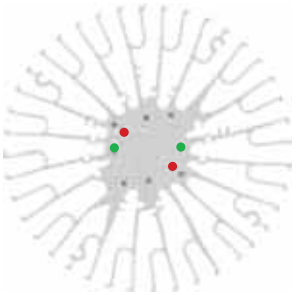
Luminus COB Arrays

LUMINUS

Patented, high performance Luminus LEDs are the brightest and most versatile solid state light sources available today, redefining the solid state lighting landscape by enabling the adoption of LED technology into emerging markets. Luminus technology is used in commercial and industrial lighting fixtures, theatrical lighting, projectors, signs, medical equipment, UV curing... just about anywhere a bright, efficient, reliable, long-life light source is needed.

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.



Luminus Xnova COB Array

Model names

- CLM-22
- CXM-22
- CHM-22

Mounting

- Direct mounting with 2 screws M3 x 6mm
  Red indicator marks
- With Zhaga Book 3 LED holder
  BJB spotlight connector 47.319.2033
  TE Connectivity Lumawise type Z50 2213480-1
  Mounting with 2 screws M3 x 6mm
  Green indicator marks

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MechaTronix

ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

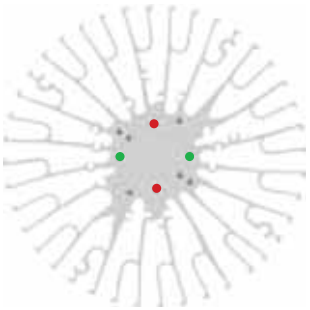
Lustrous LED COB

LUSTROUS
Green Technology of Lighting

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

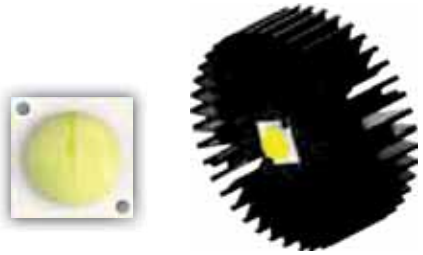
MechaTronix recommends the use of a high thermal conductive interface between the LED module and the LED cooler. Either thermal grease, a thermal pad or a phase change thermal pad thickness 0.1-0.15mm is recommended. Thermal pads or phase change thermal pads can be pre-applied from MechaTronix.



Lustrous Lustron LL613F - LL620F LED COB

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

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



Lustrous Lustron LL660D LED COB

Model names
- Lustron LL660D1210-xxx

Mounting
- Direct mounting with 2 screws M3 x 6mm
  Red indicator marks
- With Zhaga Book 3 LED holder
  BJB spotlight connector 47.319.2033
  Ideal Industries Chip-Lok™ holder 50-2204CT
  Mounting with 2 screws M3 x 6mm
  Green indicator marks

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ModuLED Giga Modular Passive Star LED Cooler ø152mm

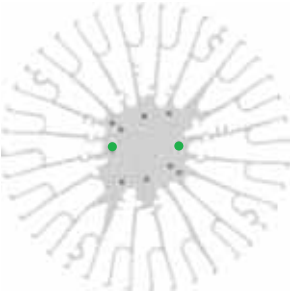
Mounting Options

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 pre-applied from MechaTronix.



Osram PrevaLED Core Z3

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

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

Osram PrevaLED Core Z4

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

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

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ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

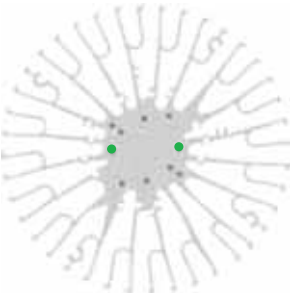
Osram Opto Semiconductors LED COB

OSRAM
Opto Semiconductors

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

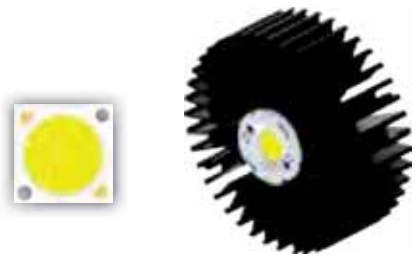
MechaTronix recommends the use of a high thermal conductive interface between the LED module and the LED cooler. Either thermal grease, a thermal pad or a phase change thermal pad thickness 0.1-0.15mm is recommended. Thermal pads or phase change thermal pads can be pre-applied from MechaTronix.



Osram Soleriq P13 LED COB

Model names
- GW MAGMB1.EM
- GW MAGMB1.CM

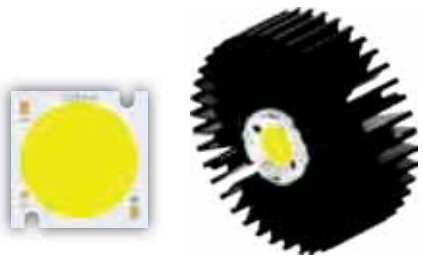
Mounting
- With Zhaga Book 3 LED holder
  Ideal Industries Chip-Lok™ holder 50-2101CR
  Mounting with 2 screws M3 x 6mm
  Green indicator marks



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 screws M3 x 6mm
  Green indicator marks



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 screws M3 x 6mm
  Green indicator marks

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MechaTronix

ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

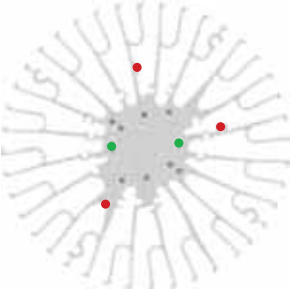
Philips LED Modules

PHILIPS

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 pre-applied from MechaTronix.



Philips Fortimo SLM GEN3 LED Modules

Model names
- Fortimo LED SLM 4000 G3
- Fortimo LED SLM 4500 G3

Mounting
- Direct mounting with 2 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

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MechaTronix

ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

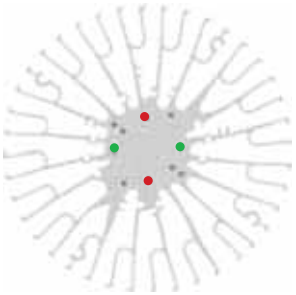
Prolight Opto LED COB's

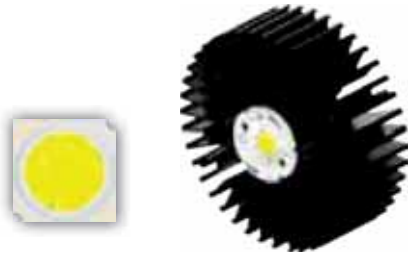
ProLight Opto Technology Corporation

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 pre-applied from MechaTronix.

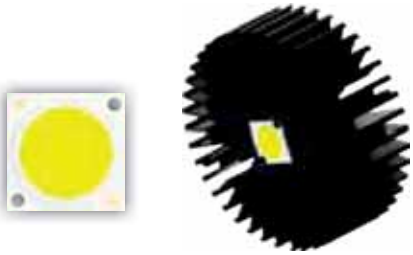




Prolight Opto CF series PACF COB

Model names
- PACF-57xxx-xxxx

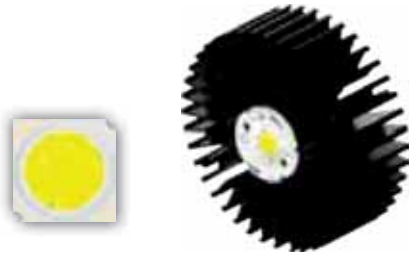
Mounting
- With Zhaga Book 3 LED holder
  BJB Spotlight connector 47.319.2021
  TE Connectivity Lumawise type Z50 2213254-1
  TE Connectivity Lumawise type Z50 2213254-2
  Mounting with 2 screws M3 x 6mm
  Green indicator marks



Prolight Opto CG series PACG COB

Model names
- PACG-110xxx-xxxx

Mounting
- Direct mounting with 2 screws M3 x 6mm
  Red indicator marks
- With Zhaga Book 3 LED holder
  BJB spotlight connector 47.319.2033
  Mounting with 2 screws M3 x 6mm
  Green indicator marks



Prolight Opto CII series PACC COB

Model names
- PACC-18xxx-xxxx

Mounting
- 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 screws M3 x 6mm
  Green indicator marks

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MechaTronix

ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

Prolight Opto CIII series PACD COB

Model names
- PACD-40xxx-xxxx

Mounting
- Direct mounting with 2 screws M3 x 6mm
  Red indicator marks
- With Zhaga Book 3 LED holder
  BJB spotlight connector 47.319.2033
  Mounting with 2 screws M3 x 6mm
  Green indicator marks

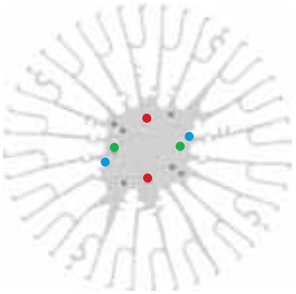
Seoul Semiconductor LED COB

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 pre-applied from MechaTronix.



Seoul Semiconductor ZC 18 LED COB

Model names
- SDW03F1C
- SDW83F1C
- SDW93F1C

Mounting
- 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 screws M3 x 6mm
  Green indicator marks

Seoul Semiconductor ZC 25 / ZC 40 / ZC 60 LED COB

Model names
- SDW04F1C
- SDW84F1C
- SDW94F1C
- SDW05F1C
- SDW85F1C
- SDW95F1C
- SDW06F1C
- SDW86F1C
- SDW96F1C

Mounting
- Direct mounting with 2 screws M3 x 6mm
  Red indicator marks
- With Zhaga Book 3 LED holder
  BJB spotlight connector 47.319.2033
  Ideal Industries Chip-Lok™ holder 50-2204CT
  Mounting with 2 screws M3 x 6mm
  Green indicator marks

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MechaTronix

ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

Seoul Semiconductor ZC 100 LED COB

Model names
- SDW07F1C
- SDW87F1C
- SDW97F1C

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

Seoul Semiconductor ACrich AC Zhaga LED COB

Model names
- ACrich AC Zhaga COB 30W

Mounting
- Direct mounting with 2 screws M3 x 6mm
  Green indicator marks

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ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

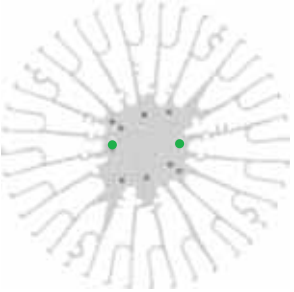
Sharp LED Modules & COB

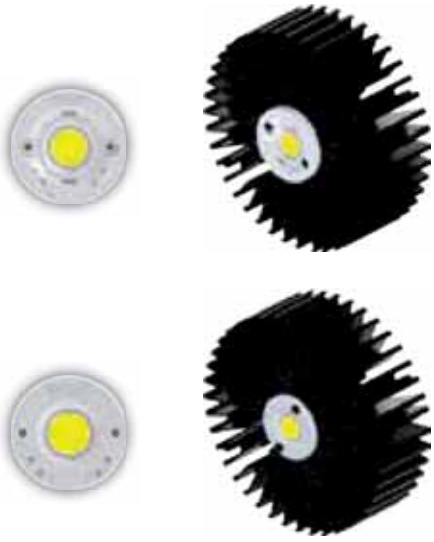
SHARP

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 pre-applied from MechaTronix.

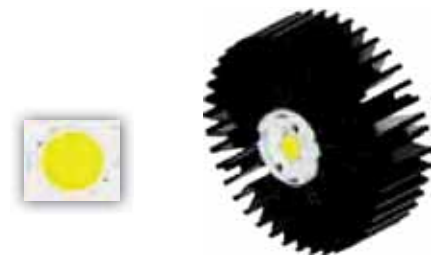




Sharp INTERMO Standard / Slim LED Modules

Model names
- GW7MMCxxGZC - 3000 lm
- GW7MGDxxGZC - 3000 lm
- GW7MMDxxGZC - 4000 lm
- GW7MGExxGZC - 4000 lm
- GW7MMExxGZC - 5000 lm

Mounting
- Direct mounting with 2 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

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

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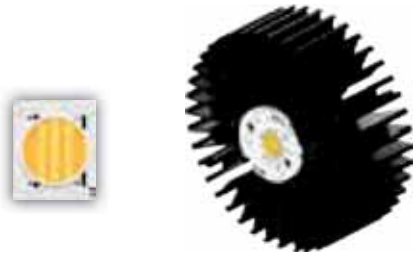
MechaTronix

ModuLED Giga Modular Passive Star LED Cooler ø152mm

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 screws M3 x 6mm
  Green indicator marks

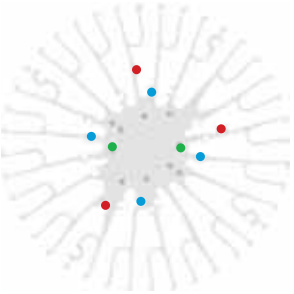
Tridonic LED Modules and COB

TRIDONIC
enlightening your ideas

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 pre-applied from MechaTronix.



TALEXX Stark SLE GEN3 19 - 23 Select / Classic / Food / Art

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

Mounting
- Direct mounting with 2 screws M3 x 6mm
  Green indicator marks

TALEXX Stark SLE GEN3 Mini LES-17 Select / Classic

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

Mounting
- With Zhaga Book 3 LED holder
  BJB Spotlight connector 47.319.2021
  Mounting with 2 screws M3 x 6mm
  Green indicator marks

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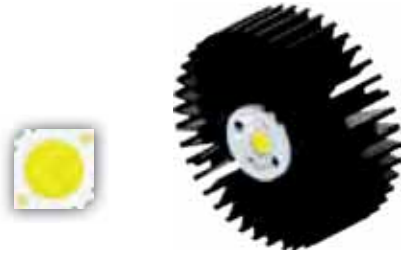
MechaTronix

ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options



TALEXXmodule SLE GEN4 15mm Excite / Advanced

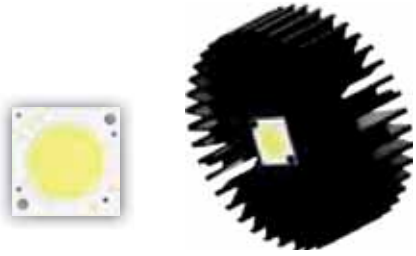
Model names
- SLE G4 15mm 2000lm xxx x EXC/ADV

Mounting
- 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 screws M3 x 6mm
  Green indicator marks

TALEXXmodule SLE GEN4 19mm - 23mm Excite / Advanced

Model names
- SLE G4 19mm 3000lm xxx x EXC/ADV
- SLE G4 23mm 5000lm xxx x EXC/ADV

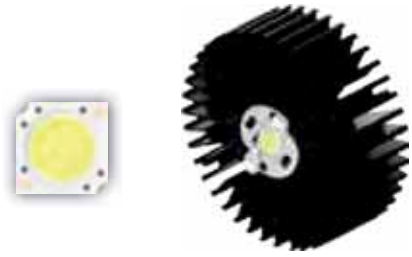
Mounting
- Direct mounting with 2 screws M3 x 6mm
  Green indicator marks



TALEXXmodule SLE GEN4 23mm Essence

Model names
- SLE G4 23mm 5000lm xxx R SNC

Mounting
- Direct mounting with 2 screws M3 x 6mm
  Green indicator marks



TALEXXmodule SLE GEN5 15mm Excite / Advanced

Model names
- SLE G5 15mm 4000lm xxx x EXC/ADV
- SLE G5 15mm 5000lm xxx x EXC/ADV

Mounting
- 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 screws M3 x 6mm
  Green indicator marks

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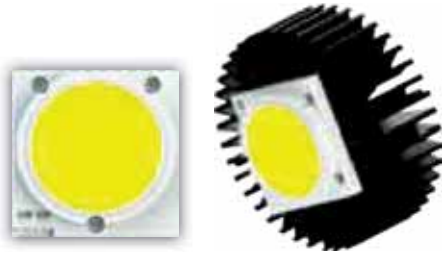
ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

TALEXXmodule SLE GEN5 19mm - 23mm Excite / Advanced

Model names
- SLE G5 19mm 5000lm xxx x EXC/ADV
- SLE G5 23mm 6000lm xxx x EXC/ADV

Mounting
- Direct mounting with 2 screws M3 x 6mm
  Green indicator marks



TALEXX Stark DLE GEN2 & TALEXXmodule DLE GEN3

Model names
- STARK DLE GEN2 CLASSIC - 2000
- STARK DLE GEN2 CLASSIC - 3000
- DLE-G2-LES65-1100-XXX-AC
- DLE-G2-LES65-2000-XXX-AC
- DLE G3 65mm 2000lm xxx x EXC
- DLE G3 65mm 3000lm xxx x EXC
- DLE G3 65mm 2000lm xxx x ADV
- DLE G3 65mm 3000lm xxx x ADV

Mounting
- Direct mounting with 3 self tapping screws M3 x 6mm
  Red indicator marks

TALEXXmodule Stark FLE GEN1

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

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

TALEXX STARK SLE GEN6 17mm D50 Advanced

Model names
- SLE G6 17mm 4000lm XXX H ADV D50

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

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ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

TALEXX STARK SLE GEN6 19mm Advanced

Model names
- SLE G6 19mm 5000lm XXX X ADV

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

TALEXX STARK SLE GEN6 23mm Advanced

Model names
- SLE G6 23mm 6000lm XXX X ADV

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

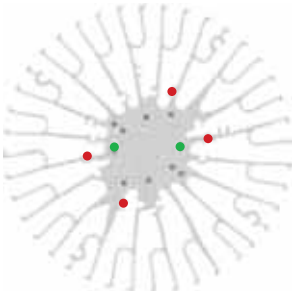
Vossloh Schwabe LED Modules

VS LIGHTING SOLUTIONS

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 pre-applied from MechaTronix.



Luga Industrial LED modules

Model names
- WU-M-467 / WU-M-443

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

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MechaTronix

ModuLED Giga Modular Passive Star LED Cooler ø152mm

Mounting Options

Luga Shop 2014 LED modules

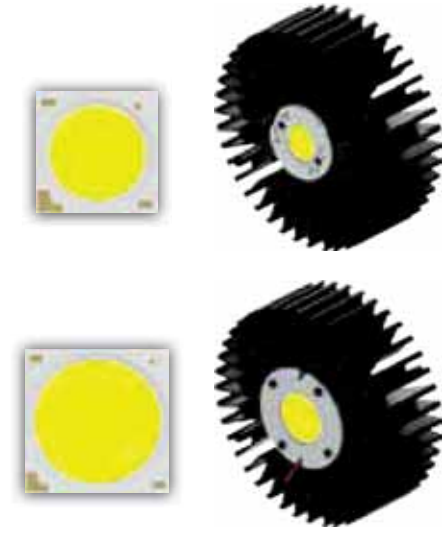
Model names
- WU-M-484 / WU-M-461
- WU-M-485 / WU-M-462
- WU-M-486 / WU-M-464

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

Luga Shop 2014 Kit LED COB

Model names
- DMS128
- DMS158

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



Luga Shop C 2016 COB 3000lm - 15000lm

Model names
- DMC12CxxxF
- DMC18CxxxF

Mounting
- With Luga Shop C holder 559164
  Mounting with 2 screws M3 x 6mm
  Green indicator marks

Model names
- DMC18QxxxF

Mounting
- With LED holder
  Bender+Wirth LED holder 458-45610/TYP M1 HV
  Mounting with 4 self tapping screws M3 x 6mm
  Blue indicator marks

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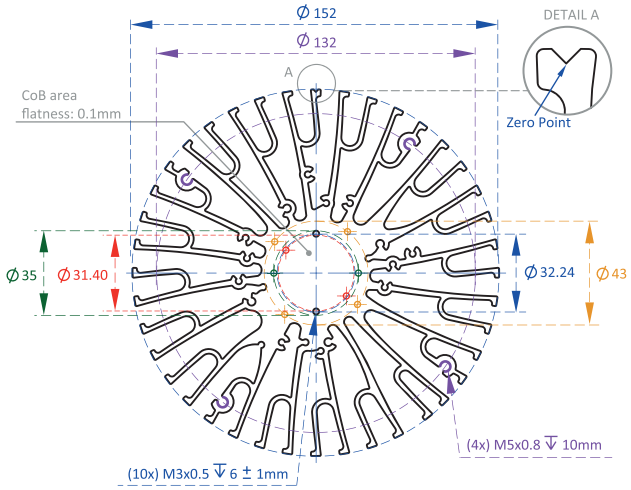
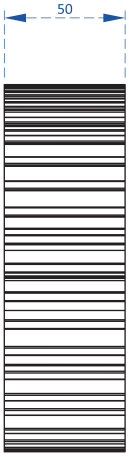
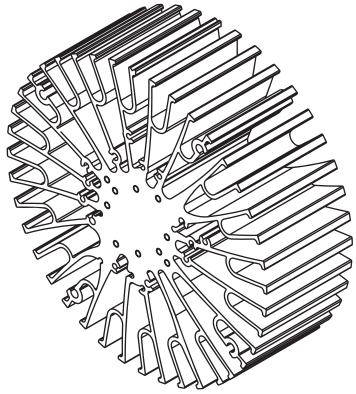
ModuLED Giga Modular Passive Star LED Cooler ø152mm

Drawings & Dimensions

Example: ModuLED Giga 15250



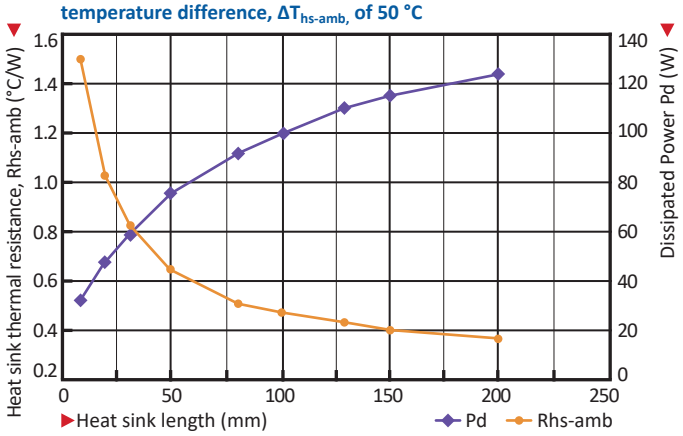




Thermal Data

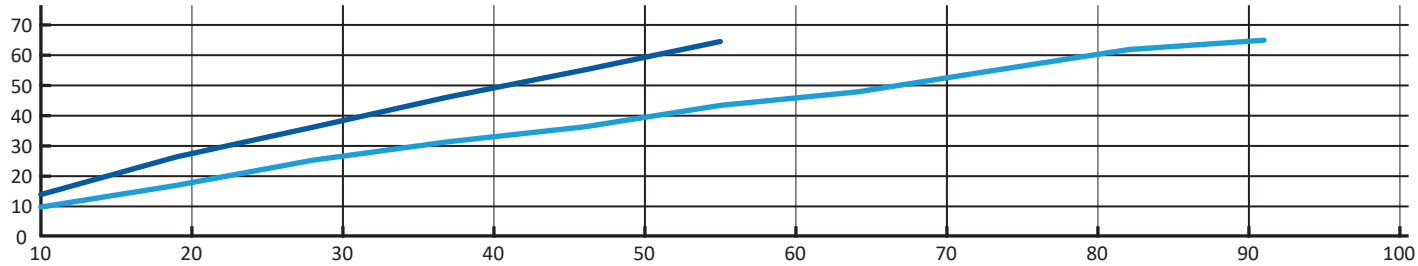
Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance $R_{hs\text{-}amb}$ (°C/W)		Heat sink to ambient temperature rise $T_{hs\text{-}amb}$ (°C)	
		ModuLED Giga 15220	ModuLED Giga 15250	ModuLED Giga 15220	ModuLED Giga 15250
Dissipated Power Pd(W)	10	1.4	1.0	14	10
	20	1.3	0.9	26	18
	30	1.2	0.8	36	25
	40	1.2	0.8	46	31
	50	1.1	0.8	55	37
	60	1.1	0.7	64	43
	70	-	0.7	-	49
	80	-	0.7	-	55
	90	-	0.7	-	61
	100	-	0.7	-	66

ModuLED Giga performance data at a heat sink to ambient temperature difference, $\Delta T_{hs\text{-}amb}$, of 50 °C



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

ModuLED Giga 15220 ModuLED Giga 15250



▶ Dissipated Power Pd (W)

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