ModulED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system



Features & Benefits

- The ModuLED Mega HBG modular passive LED coolers are specifically designed for Low Bay, Mid Bay and High Bay luminaries with the driver mounted on the LED cooler.
- Cooling performance 4,000 to 10,000 lumen.
- Thermal resistance range Rth 0.67 0.88°C/W.
- Modular design with mounting holes foreseen for direct mounting of MEAN WELL HBG-60, HBG-100 LED drivers and driver box for various LED driver manufacturers.
- Diameter 134mm Standard height 50 / 100mm. Other heights on request.
- Extruded from highly conductive aluminum.



Order Information





ModulED Mega-HBG 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 available from MechaTronix



ModulED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system



Product Details





Modul FD Mear 134100-HBG

Model n°	ModuLED Mega 13450-HBG	ModuLED Mega 134100-HBG
Dimension (mm) ^{*1}	ø134 x h50	ø134 x h100
Volume (mm ³)	283564	567200
Cooling Surface (mm ²)	165446	319435
Weight (gr)	766	1531
Thermal Resistance (°C/W) ^{*2}	0.88	0.67
Power Pd (W) ^{*3}	57	75
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-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.



lechaTron

ModulED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system



Mounting Options

The ModuLED Mega-HBG 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, COB's, MEAN WELL HBG series LED drivers and external driver connection options for various LED brands, which standard fit on the ModuLED Mega-HBG LED cooler.

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

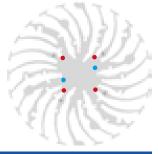
Bridgelux LED Arrays

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 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 self tapping screws M3 x 6mm Blue indicator marks

Bridgelux Vero 29 & Décor 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
- BXRC-xxA10K1-L-23
- BXRC-56G10K0-L-04

Mounting

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





$ModuLED Mega-HBG High Bay LED Cooler \\ \texttt{Ø134}mm with driver connection system$



Mounting Options

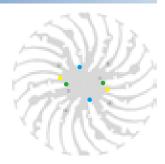
Citizen LED COB



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.





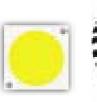


Citizen Citiled CLL042 - CLU044 - CLU046

- Model names
- CLL042-xxxx
- CLU044-xxxx
- CLU046-1212C1
- CLU046-1812C1
- CLU046-1818C1

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 - CLU056

Model names • CLL052-xxxx • CLU054-xxxx

• CLU056-1825C1

Mounting

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

Citizen Citiled High Intensity Type CLU730

Model names • CLU730-1210B8

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



$ModuLED Mega-HBG High Bay LED Cooler \\ \texttt{Ø134}mm with driver connection system$



Mounting Options

Cree XLamp LED Array

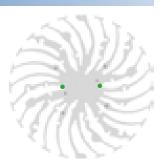


 $\label{eq:Lamp} Cree XLamp^{\$} \ \mbox{LEDs deliver the industry's best lighting-class performance and are application-optimized to enable the lowest system cost.$

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 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

Model names

- CXA3050-xxxx
- CXB3050-xxxx
- CXA3070-xxxx
- CXB3070-xxxx

Mounting

- 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



Modul ED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system



Mounting Options

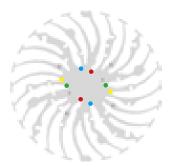
Edison Opto LED Modules and COB's

ÖDISON

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 III HM High Power series

Model names • 2PHMA2xW27P29xxx

Mounting

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



Modul ED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system

Model Names

• 5PHR22xxxx

• 5PHV35xxxx



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.

Edison Opto EdiLex Spot Light Module (SLM)

Mounting

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

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

Mounting

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



Modul ED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system



Mounting Options

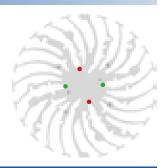
LG Innotek LED COB



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

Mounting

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



$ModuLED Mega-HBG High Bay LED Cooler \\ \texttt{Ø134}mm with driver connection system$



Mounting Options

Lumileds LED Array & COB

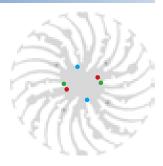
UMILEDS

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



Modul ED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system



Mounting Options

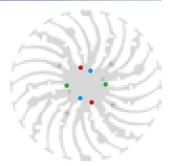
Lustrous LED COB

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 preapplied from MechaTronix.







Lustrous Lustron LL613F - LL620F LED COB

<u>Model names</u> • 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

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



$ModuleD Mega-HBG High Bay LED Cooler \\ \texttt{Ø134}mm with driver connection system$



Mounting Options

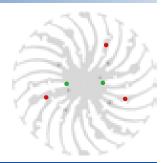
Osram PrevaLED LED Modules



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

<u>Mounting</u>

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





Osram PrevaLED Core Z4

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

Mounting

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



Osram PrevaLED Cube AC

Model names • 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



Modul ED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system



Mounting Options

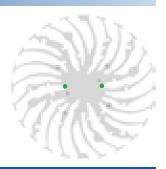
Osram Opto Semiconductors LED COB



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

<u>Mounting</u>

- 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



Osram Soleriq E30 LED COB

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

<u>Mounting</u>

• With Zhaga Book 3 LED holder

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





$ModuleD Mega-HBG High Bay LED Cooler \\ \texttt{Ø134}mm with driver connection system$



Mounting Options

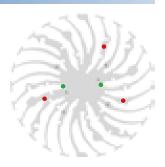
Philips LED Modules



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

<u>Model names</u> • 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



<u>Model names</u> • Fortimo DLM 3000 G5 • Fortimo DLM 5000 G5

Mounting

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





Modul ED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system



Mounting Options

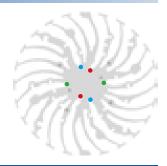
Prolight Opto LED COB's

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-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

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 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



Modul ED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system



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

Seoul Semiconductor LED COB

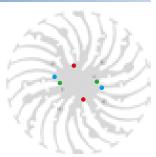


SEOUL SEMICONDUCTOR

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

- 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 6mm
- Green indicator marks



Modul ED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system



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

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 preapplied 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 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

Mounting

• With Zhaga Book 3 LED holder

Green indicator marks

- BJB spotlight connector 47.319.2011
- Ideal Industries Chip-Lok[™] holder 50-2100SH
- Mounting with 2 self tapping screws M3 x 6mm



 $ModuLED Mega-HBG High Bay LED Cooler \\ \texttt{Ø134}mm with driver connection system$



Mounting Options



Sharp Tiger Zenigata 25W LED COB

Model names • GW6TGCBG40C

<u>Mounting</u>

- With Zhaga Book 3 LED holder
- BJB spotlight connector 47.319.2051
 - Mounting with 2 self tapping screws M3 x 6mm
 - Green indicator marks

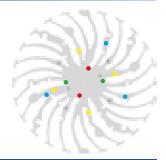
Tridonic LED Modules and COB

TRIDONIC

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.







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 self tapping screws M3 x 8mm Green indicator marks



TALEXX Stark SLE GEN3 Mini LES-17 Select / Classic

<u>Model names</u> • <u>STARK-SLE-PU</u>RE-G3-17-xxx

<u>Mounting</u>

- 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



ModulED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system



Mounting Options



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

<u>Mounting</u>

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





TALEXXmodule SLE GEN4 23mm Essence

<u>Model names</u>
• SLE G4 23mm 5000lm xxx R SNC

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



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 self tapping screws M3 x 8mm Green indicator marks

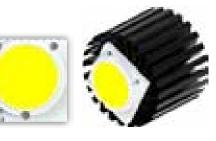




Modul ED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system



Mounting Options



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 8mm **Blue indicator marks**

TALEXXmodule Stark FLE GEN1

Model names

Mounting

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





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





Modul ED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system



Mounting Options

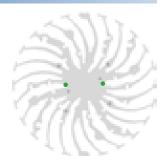
Vossloh Schwabe LED Modules



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

Mounting

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



$ModuleD Mega-HBG High Bay LED Cooler \\ \texttt{Ø134}mm with driver connection system$



Mounting Options

MEAN WELL HBG series LED Drivers

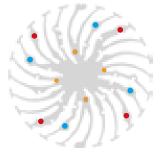


The Mean Well HBG LED drivers are specifically developed for mid bay and high bay applications. The round shape of the HBG LED frovers gives an ergonomic fitting with the ModuLED high bay cooler. Thermally this driver is specific designed to sit on top of a LED cooler, with the critical components thermally coupled to the top of the driver so free air convection can be optimal.

In combination with the MechaTronix ModuLED Mega HBG this makes your ideal LED engine up to 10,000 lumen.

Mounting indicator marks overview

Keep in mind to keep a gap at least 10mm between the LED cooler and the driver to allow free air convection - this can be obtained with spacers or with the MTX dedicated mounting options.





MEAN WELL HBG-60 series LED driver Model Names Driver mounting • HBG-60-1050 • Direct mounting with 4 spacers + (4x) M5 screws • HBG-60-1400 • Direct mounting with 4 spacers + (4x) M5 screws • HBG-60-2100 with Connector marks • With Connector set for HBG-60 + (4x) M5 x 30mm screws Red indicator marks • Connector set for HBG-60 • Direct mounting on the LED cooler with 4 screws M5 x 12mm

Orange indicator marks



MEAN WELL HBG-100 series LED driver

<u>Model Names</u>	Driver mounting				
• HBG-100-24	• Direct mounting with 4 spacers + (4x) M5 screws				
• HBG-100-36	keep minimal 10mm gap between the LED cooler				
• HBG-100-48	Blue indicator marks				
• HBG-100-60	• With Connector set for HBG-100 + (4x) M5 x 30mm screws				
	Blue indicator marks				
Model Names	Connector set mounting				
Connector set for HBG-100	·				
Connector set for HBG-100	• Direct mounting on the LED cooler with 4 screws M5 x 12mm				



$ModuLED Mega-HBG High Bay LED Cooler \\ \emptyset 134mm with driver connection system$



Mounting Options

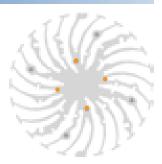
External driver box connection option



MechaTronix was formed in 2007, comprised of five already successful manufacturing companies, with each of them in excess of a decade of continuous operation. MechaTronix provides a wide variety of mechanical and electromechanical parts as well as assemblies for the international Original Equipment Manufacturers market.

Mounting indicator marks overview

The CoolBox driver box design keeps automatically the necessary space towards the LED cooler, so free air convection will not be blocked - no extra spacer needed.





MechaTronix driver box

This universal driver box is designed in this way that almost all drivers available in the market up to 160 Watt can be mounted inside without the need of drilling or mechanical adaptations. The universal drivers clamping fixation also creates the perfect locking of your driver towards the top shell, so conduction can easily occur and convection towards the outside will guarantee the driver to keep within temperature specs.

Model Names

CoolBox

Universal driver box for ModuLED and CoolBay[®] high bay LED coolers

Mounting

 Direct mounting on the LED cooler with 4 screws M5 x 10mm Orange indicator marks



MechaTronix driver box connector ring

The driver box connector ring guarantees you the ideal space between the ModuLED LED cooler and your external driver box. With it's open structure and aluminium conductivity, this is the ideal bridge between any driver box in the market and our high bay coolers.

Model Names

Driver box connector ring

Mounting

 Direct mounting on the LED cooler with 4 screws M5 x 30mm Orange indicator marks





ViechaTron

ModulED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system



Mounting Options

MechaTronix High Bay LED accessories

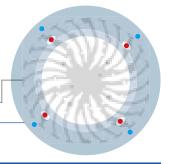


With regards to reflectors we have equipped our high bay the most common high bay reflector standard, the 143mm pitch. For the lenses the standard mounting pattern is foreseen for all 100mm lenses with or without rubber gasket. Although we don't produce our own lenses and reflectors, we keep a limited number of models from stock available for your urgent needs. Below you can find an overview of these models as well as the mounting patterns which go along.

Mounting indicator marks overview

ModuLED Mega

Optics adaptor





Adaptor plate for connection of reflector & lens

With the ModuLED Mega optics adaptor you get an unprecedented flexibility in choices of optics. Equipping your high bays with a wide variety of reflectors in metal or plastic, adding lenses for a controlled light image,... it all becomes plug-and-play.

Model Names

ModuLED Mega optics adaptor

Mounting

Mounting

• Direct mounting on the LED cooler with 4 MTX screws M5 x 9mm **Red indicator marks**

CoolBay[®] Lens

A wide variety of diameter 100mm lenses made out of glass with beam angles 60 degrees, 90 degrees or 120 degrees - Comes together with a high quality rubber gasket. Plastic varieties in clear and milk colored are also available on request.

Model names

- CoolBay[®] Lens 60
- CoolBay[®] Lens 90

• With optics adaptor + (4x) MTX screws M5 x 9mm

- **Red indicator marks**
- CoolBay[®] Lens 120

Dust Protection Plate

When you are using lenses on the ModuLED high bay coolers, the open structure of the cooling fins might lead to dust accumulation in the lens. To avoid this MechaTronix has developed a range of dust protection plates (DPP) which go along with various COB sizes and LED holders. This option is of course not needed when you equip your high bay with a reflector only.

Model Names

- DPP-Mega-2828-01 DPP-Mega-ZHAGA3-01
- DPP-Mega-2828-02 • DPP-Mega-ZHAGA3-02
- DPP-Mega-3838-01
- DPP-Mega-3838-02

Example DPP-Mega-2828-01 : 28mm x 28mm COB, Cable hole position for HBG-60 LED driver



- 1 COB dimension (mm)
- MW HBG driver cable hole position 2 01 - for MW HBG-60 02 - for MW HBG-100

Mounting

• Direct mounting on the LED cooler with 4 MTX screws M5 x 9mm **Red indicator marks**





Modul ED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system



Mounting Options



CoolBay[®] Reflector

A limited range of high-end off-the-shelf available high bay reflectors in high transflective coated aluminium or polycarbonate. All our reflectors follow the most common mounting standard with a pitch of 143mm and can be fixed with the ModuLED Mega optics adaptor towards the LED cooler. All our reflectors are transported in a special adapted packaging for damage prevention.

Model names

- CoolBay[®] Reflector 45
- CoolBay[®] Reflector 45 PC
- CoolBay[®] Reflector 90
- CoolBay[®] Reflector 120

Mounting

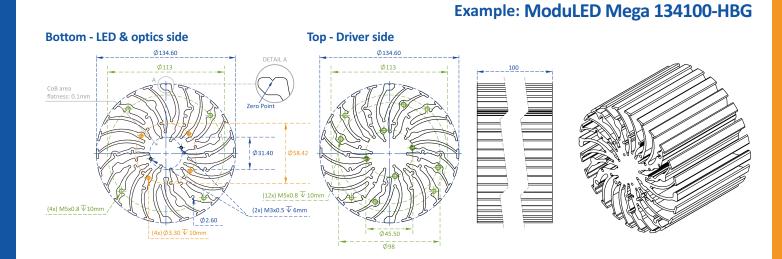
 Direct mounting on optics adaptor with 4 screws M5 x 6mm Blue indicator marks



Modul ED Mega-HBG High Bay LED Cooler Ø134mm with driver connection system



Drawings & Dimensions



Thermal Data

Pd = F (1-ŋ		Heat sink to ambient thermal resistance R _{hs-amb} (°C/W)		Heat sink to ambient temperature rise T _{hs-amb} (°C)	
(1 1)	-,	ModuLED Mega 13450-HBG	ModuLED Mega 134100-HBG	ModuLED Mega 13450-HBG	ModuLED Mega 134100-HBG
	10	1.20	-	12	-
_	20	1.05	0.80	21	16
Pd(W)	30	0.97	0.77	29	23
r Po	40	0.93	0.73	37	29
owe	50	0.90	0.70	45	35
d Pc	60	0.87	0.68	52	41
ate	70	0.84	0.67	59	47
Dissipated Power	80	0.83	0.66	66	53
	90	0.81	0.64	73	58
	100	-	0.63	-	63

– 10 Dissipated Power Pd (W)

