

MechaTronix *in* LED

– MOUNTING INSTRUCTION –

ModuLED Giga-HBG High Bay LED Cooler ø152mm with driver connection system



Product Details

Model n°	 ModuLED Giga 152100-HBG	 ModuLED Giga 152150-HBG
Dimension (mm) ^{*1}	ø152 x h100	ø152 x h150
Volume (mm ³)	566553	857898
Cooling Surface (mm ²)	363547	541592
Weight (gr)	1530	2316
Thermal Resistance (°C/W) ^{*2}	0.52	0.46
Power Pd (W) ^{*3}	95	110
Heat Sink Material	AL6063-T5	AL6063-T5

^{*1} 3D files are available 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: $Pd = Pe \times (1 - \eta_L)$

Pd - Dissipated power

Pe - Electrical power

η_L = Light efficiency 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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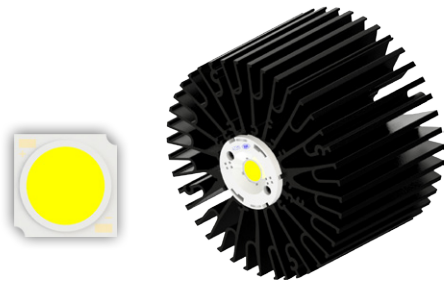
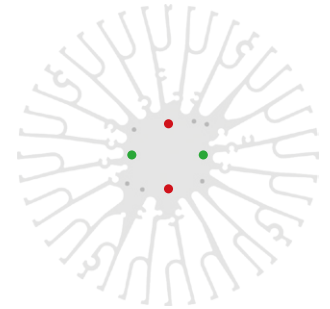
Prolight Opto LED COB's



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.



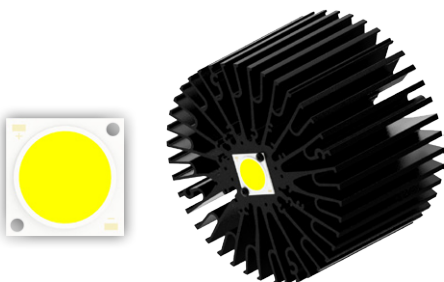
Prolight Opto CF series PACF COB

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



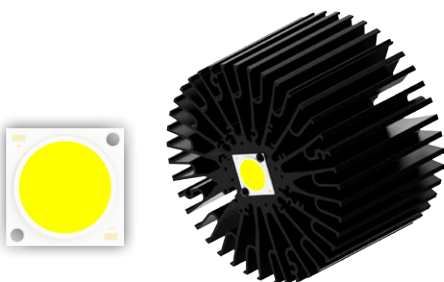
Prolight Opto CG series PACG COB

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 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