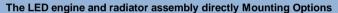




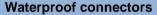
# GooLED-19037 Passive Pin Fin Heatsink Φ190mm

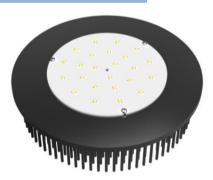
### **Features VS Benefits**

- \* Mechanical compatibility with direct mounting of the SMD products to the LED cooler and thermal performance matching the lumen packages.
- \* For flood light, street light and high bay designs from 3,600 to 9,000 lumen.
- \* Thermal resistance range Rth 0.83°C/W.
- \* Product size: Diameter 190mm Standard height 37mm, Other widths on request.
- \* Forged from highly conductive aluminium for optimal thermal performance (AL1070), aluminium 1070 thermal conductivity is 2.0 times higher than ADC12.
- \* 2 standard colors clear anodised black anodised
- \* Waterproof level designs from IP65 to IP67.
- \* With the SMD products (3030, 2835, 5050......): Bridgelux, Cree, Edison, Citizen, LG Innotek Lumileds, Luminus, Lumens, Nichia, Osram, Prolight Opto, Seoul, Samsung, Sharp.



- \* Below you find an overview of SMD products which standard fit on the GooLED series coolers.
- \* In this way mechanical after work and related costs can be avoided, and lighting designers can standardize their designs on a limited number of LED coolers.







Not only consider waterproofness of the lens, but also on outside connecting line. Mingfa Tech can provide compatible waterproof connector with GooLED heat sink.

#### Features

The claws and seals excellent design, can hold cable firmly and have a wider cable range. Resistant to salt water. weak acid, alcohol, oil, grease and common solvency.

- 1、Working temperature:Min -40℃ to Max 120℃.
- 2. Body material:Brass nickel plated
- 3. Cable range Dia:3~6mm
- 4. Protection degree:IP68

Mingfa tech product number:

- 1、21000001-04(M8
- 2、21000002-04(M10)

### **Order Information**

Example:GooLED-19037-B Example:GooLED-19037 -





**Anodising Color** 

B-Black

C-Clear

**Z-Custom** 

#### Notes:

- Mentioned models are an extraction of full product range.
- For specific mechanical adaptations please contact MingfaTech.
- $\mbox{\sc MingfaTech}$  reserves the right to change products or specifications



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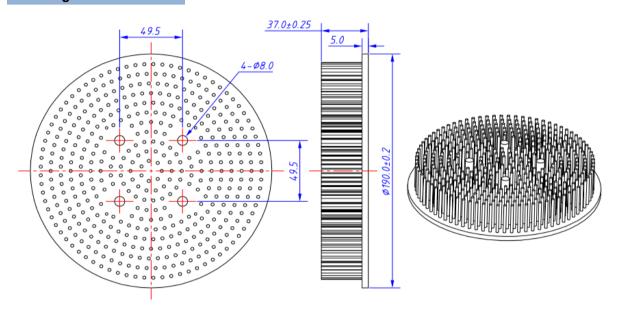
Http://www.heatsinkled.com







# **Drawings & Dimensions**



### Product deta table









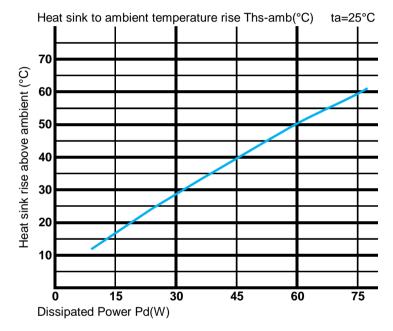


# GooLED-19037 Passive Pin Fin Heatsink Φ190mm

#### The thermal data table

- \* 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:  $Pd = Pe x (1-\eta L)$ .
- Pd Dissipated power; Pe Electrical power; nL = Light effciency of the LED module;

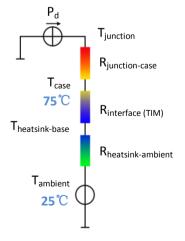
Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		GooLED-19037	
Dissipated Power Pd(W)	15.0	1.07	16.0
	30.0	0.93	28.0
	45.0	0.87	39.0
	60.0	0.83	50.0
	75.0	0.79	59.0



\*The aluminum substrate side of the package outer shell is thermally connected to the heat sink via TIM (Thermal interface material).

MingFa 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 resistance is a heat property and a measurement of a temperature difference by which an object or material resists a heat flow.

Geometric shapes are different, the thermal resistance is different.

Formula:  $\theta = (Ths - Ta)/Pd$ 

- $\theta$  Thermal Resistance [°C/W] ; Ths Heatsink temperature ; Ta Ambient temperature
- \*The thermal resistance between the junction section of the light-emitting diode and the aluminum substrate side of the package outer shell is  $R_{junction\text{-}case}$ , the thermal resistance of the TIM outside the package is  $R_{interface\ (TIM)}$  [°C/W], the thermal resistance with the heat sink is  $R_{heatsink\text{-}ambient}$  [°C/W], and the ambient temperature is  $T_{ambient}$  [°C].
- \*Thermal resistances outside the package  $R_{interface \, (TIM)}$  and  $R_{heatsink-ambient}$  can be integrated into the thermal resistance  $R_{case-ambient}$  at this point. Thus, the following formula is also used:

T<sub>junction</sub>=(R<sub>junction-case</sub>+R<sub>case-ambient</sub>)•Pd+T<sub>ambient</sub>

