



for

LED

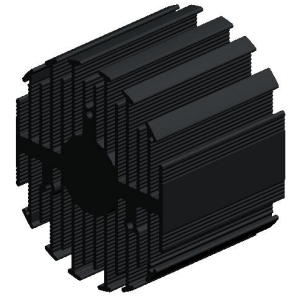


eLED

### eLED-SEO-7050 Seoul Modular Passive Star LED Heat Sink $\Phi$ 70mm

#### Features VS Benefits

- \* The eLED-SEO-7050 Seoul Modular Passive LED Coolers are specifically designed for luminaires using the Seoul LED engines.
- \* Mechanical compatibility with direct mounting of the LED engines to the LED cooler and thermal performance matching the lumen packages.
- \* For spotlight and downlight designs from 1000 to 2700 lumen.
- \* Thermal resistance range  $R_{th}$  2.18°C/W.
- \* Modular design with mounting holes foreseen for direct mounting of Seoul ZC4 Series, ZC6 Series, ZC12 Series, ZC18 Series, ZC25 Series and ZC40 Series COB engines.
- \* Diameter 70mm - standard height 50mm Other heights on request.
- \* Extruded from highly conductive aluminum.

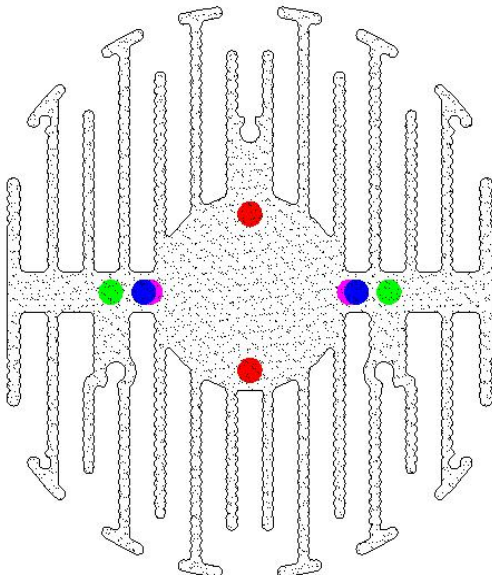


#### Seoul LED engine and radiator assembly directly Mounting Options

- \* Below you find an overview of Seoul COB's and LED modules which standard fit on the eLED Star LED Heat Sinks.
- \* 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.



SEoul SEMICONDUCTOR



#### Seoul COB engines Mounting Options

##### ZC4 Series COB Modules:

SDW01F1B; SDW81F1B;

##### ZC6 Series COB Modules:

SDW01F1C; SDW81F1C; SDW91F1C;

Zhaga Book 11 holder;  
 Pink indicator marks,  
 BJB Spotlight connector 47.319.6060.50  
 Mounting with 2 screws M3x8mm.  
 Direct mounting with 2 screws M3x6mm.  
 Red indicator marks.

##### ZC 12 Series COB Modules:

SDW02F1C; SDW82F1C; SDW92F1C;

##### ZC 18 Series COB Modules:

SDW03F1C; SDW83F1C; SDW93F1C;

Zhaga Book3 Holes ;  
 Green indicator marks,  
 BJB Semiconductor Spotlight connector 47.319.2021.50

TE Connectivity Lumawise type Z502213254-1  
 TE Connectivity Lumawise type Z502213254-2

Mounting with 2 screws M3x8mm.  
 Direct mounting with 2 screws M3x6mm;  
 Blue indicator marks.

##### ZC 25 Series LED Modules name:

SDW04F1C;  
SDW84F1C;  
SDW94F1C;

##### ZC 40 Series LED Modules name:

SDW05F1C;  
SDW85F1C;  
SDW95F1C;

Green indicator marks:  
 Zhaga Book3 BJB Holder:47.319.2030.50  
 Mounting with machine screws M3x8mm ;



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Mounting Options and Drawings & Dimensions

Example:eLED-SEO-7050-B-3

Example:eLED-SEO-70 **1** - **2** - **3**

- 1** Height (mm)
- 2** Anodising Color  
B-Black  
C-Clear  
Z-Custom
- 3** Mounting options;  
On request;  
Mounting holes, cable holes;  
Screw thread, thermal interface pad.



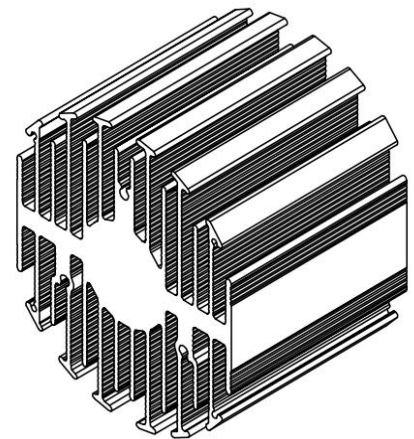
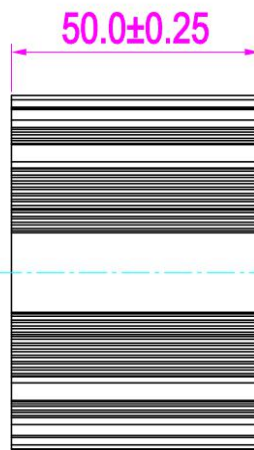
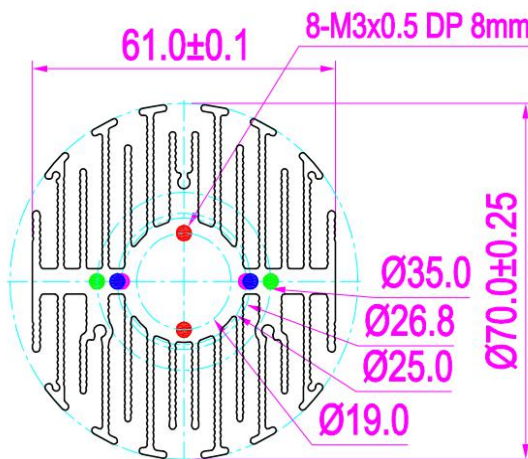
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Notes:

- Mentioned models are an extraction of full product range.
  - For specific mechanical adaptations please contact MingfaTech.
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  - MingfaTech reserves the right to change products or specifications without prior notice.
- Note : option 2 and option 3 can not be combined



MOUNTING OPTION	Module type	Holder NO.	THREAD	THREAD DEPTH	THREAD HOLE DISTANCE
1	ZC4 Series ZC6 Series	/	M3	6.5mm	19mm/ 2-@180°
2	ZC4 Series ZC6 Series	BJB:47.319.6060.50	M3	6.5mm	25mm/ 2-@180° Zhaga Book 11
3	ZC12 Series ZC18 Series	/	M3	6.5mm	26.8mm/ 2-@180°
4	ZC12 Series ZC18 Series	BJB:47.319.2040.50	M3	6.5mm	35mm/ 2-@180° Zhaga Book3
	ZC25 Series ZC40 Series ZC60 Series	BJB:47.319.2030.50	M3	6.5mm	



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eLED-SEO-7050 Seoul Modular Passive Star LED Heat Sink  $\Phi$ 70mm

The thermal data table

	 <i>eLED-7050</i>
<b>Model No.</b>	<b>eLED-SEO-7050</b>
<b>Size</b>	<b><math>\Phi</math>70xH50mm</b>
<b>Material</b>	<b>AL6063-T5</b>
<b>Finish</b>	<b>Black Anodized</b>
<b>Weight(gr)</b>	<b>206</b>
<b>Thermal Wattage</b>	<b>22.9W</b>
<b>Heatsink<math>\Theta</math>s-a<sup>2</sup></b>	<b>73369</b>
<b>Heat Sink T<sub>Rise</sub> Above Ambient</b>	<b>2.18</b>

Dissipated Power Pd(W)	Pd = Pe x (1-ηL)	Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		eLED-SEO-7050	
5		3.40	17
10		2.80	28
15		2.70	37
20		2.25	45
25		2.16	54

