GooLED

GooLED-SAM-8650 Pin Fin LED Heat Sink Φ86.5mm for Samsung

Features VS Benefits

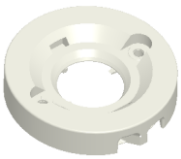
* The GooLED-SAM-8650 Samsung Pin Fin LED Heat Sinks are specifically designed for luminaires using the Samsung LED engines.
* Mechanical compatibility with direct mounting of the LED engines to the LED cooler and thermal performance matching the lumen packages.
* For spotlight and downlight designs from 1,600 to 4,400 lumen.
* Thermal resistance range Rth 1.85°C/W.
* Modular design with mounting holes foreseen for direct mounting of Samsung LED engines.
* Diameter 86.5mm - standard height 50.0mm, Other heights on request.
* Forged from highly conductive aluminum.

Zhaga LED engine and radiator assembly is a unified future international standardization

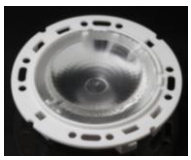
* Below you find an overview of Samsung COB's and LED modules which standard fit on the Pin Fin LED Heat Sinks.
* In this way mechanical after work and related costs can be avoided, and lighting designers can standardize their designs on a limited number of LED Pin Fin LED Heat Sink.

SAMSUNG

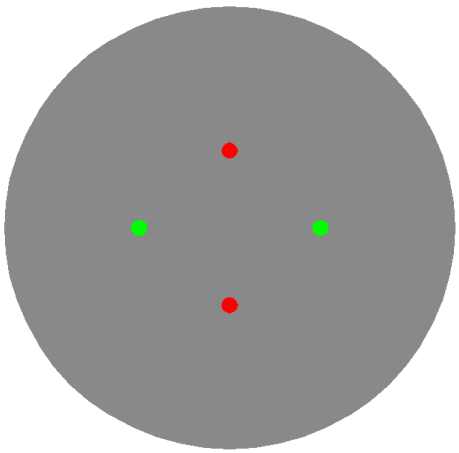
BJB



TE connectivity



LEDiL



Samsung LED Modules directly Mounting Options

Samsung B Series LED modules name:

L026B;
L033B;
L040B;

With the Zhaga Book 3 holders for the green indicator marks.
BJB Holder: 47.319.2254.50;
TE LED Holder: 2213258-1;
Without the holders for the red indicator marks.
Direct mounting with machine screws M3x6.5mm.

Samsung D Series LED modules name:

LC016D;
LC019D;
LC026D;

With the Zhaga Book 3 holders for the green indicator marks.
BJB Holder: 47.319.2021.50;
TE LED Holder: 2213254-1;
Direct mounting with machine screws M3x6.5mm.
With the LEDiL products:
Ronda series: FN15xxx;
Olivia series: FN14828-M; FN14637-S;

Samsung C Series LED modules name:

LC040C;

With the Zhaga Book 3 holders for the green indicator marks.
TE LED Holder: 2213382-1;
Direct mounting with machine screws M3x6.5mm.
With the LEDiL products:
Ronda series: FN15xxx;

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Mounting Options and Drawings & Dimensions

Example:GooLED-SAM-8650-B-1,2

Example:GooLED-SAM-86 1 - 2 - 3

1 Height (mm)

2 Anodising Color

B-Black

C-Clear

Z-Custom

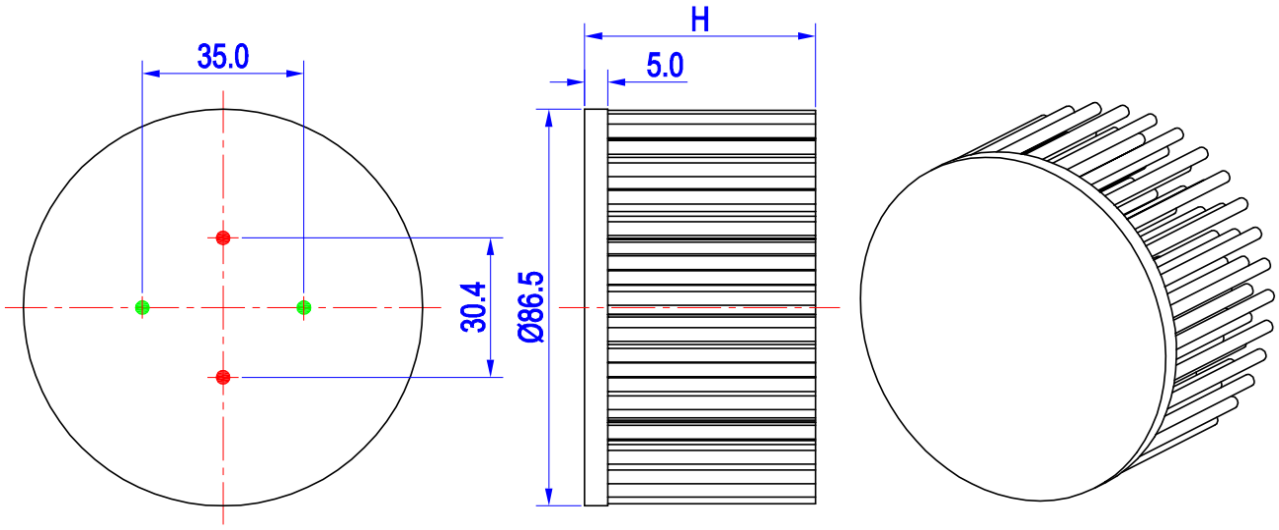
3 Mounting Options - see graphics for details Combinations available

Ex.order code - 12 means option 1 and 2 combined

Notes:

- Mentioned models are an extraction of full product range.
- For specific mechanical adaptations please contact MingfaTech.
- MingfaTech reserves the right to change products or specifications without prior notice.

MOUNTING OPTION	Module type	Holder NO.	LEDiL products		THREAD	THREAD DEPTH	THREAD HOLE DISTANCE
			Olivia series	Ronda series			
N	/	None	None	None	None	None	None
1	L026B; L033B; L040B;	/	/	/	M3	6.5mm	30.4mm/ 2-@180°
2	L026B; L033B; L040B;	BJB Holder 47.319.2254.50	/	/	M3	6.5mm	35.0mm/ 2-@180° (Zhaga book 3)
		TE Holder 2213258-1					
	L016D; L018D; L026D;	BJB Holder 47.319.2021.50	FN14828-M; FN14637-S;				
		TE Holder 2213254-1					
	L040C;	TE Holder 2213382-1	/	FN15xxx;			



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The product deta table

Model No.	GooLED-SAM-8650
Heatsink Size	Φ86.5xH50mm
Heatsink Material	AL1070
Finish	Black Anodized
Weight (g)	210.0
Dissipated power (Ths-amb,50℃)	27.0 (W)
Cooling surface area (mm^2)	77577
Thermal Resistance (Rhs-amb)	1.85 (°C/W)

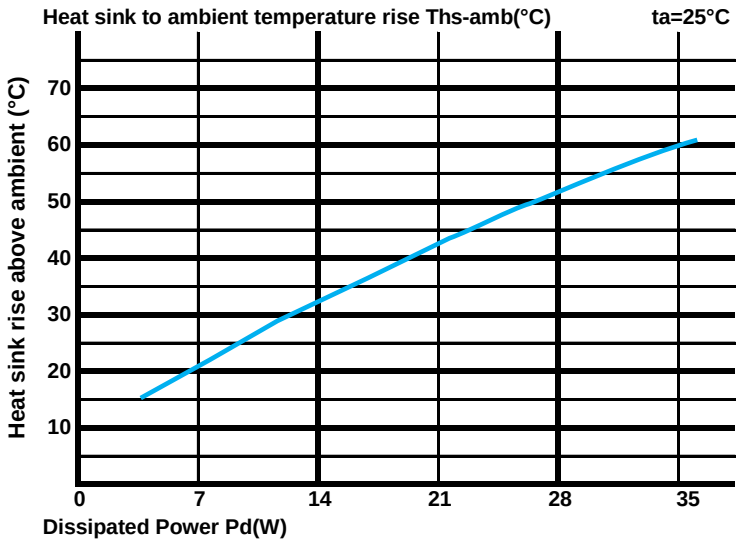
The thermal data table

* 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-ηL).

Pd - Dissipated power ; Pe - Electrical power ; ηL = Light effciency of the LED module;

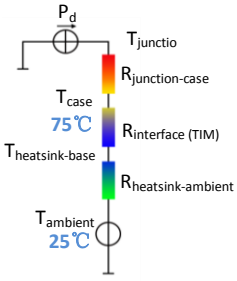
Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		GooLED-SAM-8650	
Dissipated Power Pd(W)	7.0	2.86	20.0
	14.0	2.21	31.0
	21.0	2.00	42.0
	28.0	1.82	51.0
	35.0	1.69	59.0



*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: θ =(Ths−Ta)/Pd

θ - 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 $R_{junction-case}$, the thermal resistance of the TIM outside the package is $R_{interface\ (TIM)}$ [°C/W], the thermal resistance with the heat sink is $R_{heatsink-ambient}$ [°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:

$T_{junction}=(R_{junction-case}+R_{case-ambient})\cdot Pd+T_{ambient}$

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