

- thermal performance matching the lumen packages.
- * For spotlight and downlight designs from 900 to 2,600 lumen.
- * Thermal resistance range Rth 3.23°C/W.
- * Modular design with mounting holes foreseen for direct mounting of Vossloh-Schwabe COB series.
- * Diameter 68.0mm 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 Vossloh-Schwabe 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.



Vossloh-Schwabe LED Modules directly Mounting Options Vossloh-Schwabe LUGA Shop Gen. 5/ Gen.6 COB Series (13.5*13.5): : DMS124***H; DMS123***G; With the Zhaga Book 11 holders for the green indicator marks. BJB holder: 47.319.6294.50; AAG.STUCCHI: 8100-G2 Without the holders for the pink indicator marks. Direct mounting with machine screws M3x6.5mm.

Vossloh-Schwabe LUGA Shop Gen. 5/ Gen.6 COB Series (19.0*19.0):

DMS124***G; DMS125***G; DMS126***G; DMS128***G; DMS125***H; DMS126***H; DMS128***H;

Vossloh-Schwabe LUGA Shop TW COB Series:

TW1914

With the Zhaga Book 3 holders for the blue indicator marks. BJB holder: 47.319.2021.50; AAG.STUCCHI: 8101-G2 Without the holders for the red indicator marks. Direct mounting with machine screws M3x6.5mm.

Tel:+86-769-39023131 Fax:+86-(020)28819702 ext:22122 Email:sales@mingfatech.com Http://www.heatsinkled.com Http://www.mingfatech.com





GooLED-VOS-6850 Pin Fin LED Heat Sink Φ68mm for Vossloh-Schwabe

Mounting Options and Drawings & Dimensions

3

Example:GooLED-VOS-6850-B-1,2 Example:GooLED-VOS-68 1 2 Height (mm) Anodising Color B-Black C-Clear Z-Custom

Notes:

- Mentioned models are an extraction of full product range.

means option 1 and 2 combined

details Combinations available

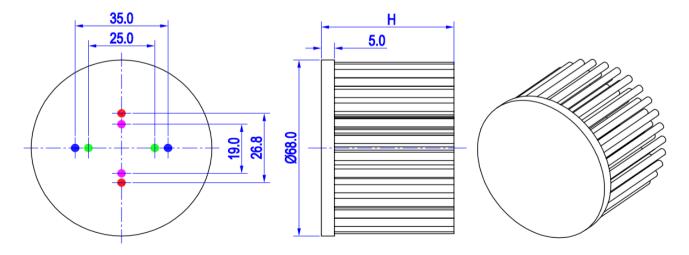
Ex.order code - 12

Mounting Options - see graphics for

- 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.	THREAD	THREAD DEPTH	THREAD HOLE DISTANCE
1	COB series (13.5*13.5)	/	M3	6.5mm	19.0mm/ 2-@180°
2		BJB Holder 47.319.6294.50	М3	6.5mm	25.0mm/ 2-@180°
		AAG.STUCCHI 8100-G2	M3	6.5mm	(Zhaga book 11)
3	COB series (19.0*19.0)	/			26.8mm/ 2-@180°
4		BJB Holder 47.319.2021.50			35.0mm/ 2-@180° (Zhaga book 3)
		AAG.STUCCHI 8101-G2			



Tel:+86-769-39023131 Fax:+86-(020)28819702 ext:22122 Email:sales@mingfatech.com Http://www.heatsinkled.com Http://www.mingfatech.com





GooLED-VOS-6850 Pin Fin LED Heat Sink Ø68mm for Vossloh-Schwabe

The product deta table

GOOLED	Model No.	GooLED-VOS-6850
GooLED	Heatsink Size	Ф68хH50mm
	Heatsink Material AL1070	
	Finish	Black Anodized
	Weight (g)	153.0
	Dissipated power (Ths-amb,50°C)	15.5 (W)
	Cooling surface area (mm ²)	59562
	Thermal Resistance (Rhs-amb)	3.23 (°C/W)

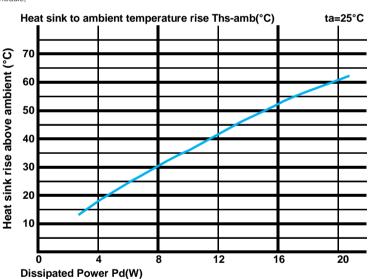
The thermal data table

* 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: $Pd = Pe \times (1 - \eta L)$.

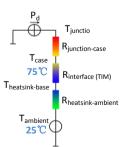
Pd - Dissipated power ; Pe - Electrical power ; ηL = Light effciency of the LED module;

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-VOS-6850	
Dissipated Power Pd(W)	4.0	4.25	17.0
	8.0	3.75	30.0
	12.0	3.42	41.0
	16.0	3.25	52.0
	20.0	3.00	60.0



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

heta - 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 $R_{\text{interface (TIM)}}$ and $R_{\text{heatsink-ambient}}$ can be integrated into the thermal resistance $R_{\text{case-ambient}}$ at this point. Thus, the following formula is also used: $T_{junction} = (R_{junction-case} + R_{case-ambient}) \cdot Pd + T_{ambient}$

Tel:+86-769-39023131 Fax:+86-(020)28819702 ext:22122 Email:sales@mingfatech.com Http://www.heatsinkled.com Http://www.mingfatech.com

