

GooLED-VOS-11050 Pin Fin LED Heat Sink Φ110mm for Vossloh-Schwabe

Features VS Benefits

- * The GooLED-VOS-11050 Vossloh-Schwabe Pin Fin LED Heat Sinks are specifically designed for luminaires using the Vossloh-Schwabe 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 2,000 to 5,500 lumen.
- * Thermal resistance range Rth 1.47°C/W.
- * Modular design with mounting holes foreseen for direct mounting of Vossloh-Schwabe COB series.
- * Diameter 110.0mm 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 (28.0*28.0): DMS120***G; DMS120***H; DMS18C***G;

Vossloh-Schwabe LUGA Shop TW COB Series:

With the Zhaga Book 3 holders for the green indicator marks. BJB holder: 47.319.2030.50; AAG.STUCCHI: 8102-G2 Without the holders for the blue indicator marks.

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

DMS128***G;

With the Zhaga Book 3 holders for the green indicator marks.

Without the holders for the red indicator marks. Direct mounting with machine screws M3x6.5mm.

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Mounting Options and Drawings & Dimensions

3

Example:GooLED-VOS-11050-B-1,2 Example:GooLED-VOS-110 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

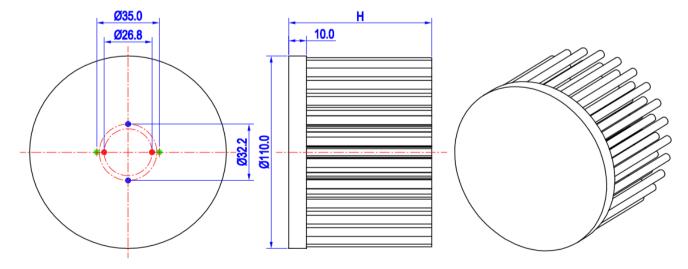
details Combinations available

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 (19.0*19.0)	/	M3	6.5mm	26.8mm/ 2-@180°
2	COB series (28.0*28.0)	/	M3	6.5mm	32.2mm/ 2-@180°
3		BJB Holder 47.319.2030.50	МЗ	6.5mm	35.0mm/ 2-@180° (Zhaga book 3)
		AAG.STUCCHI 8102-G2			
	COB series (19.0*19.0)	BJB Holder 47.319.2021.50			
		AAG.STUCCHI 8101-G2			



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The product deta table

GooLED	Model No.	GooLED-VOS-11050	
GooLED	Heatsink Size	Φ110xH50mm	
	Heatsink Material	AL1070	
	Finish	Black Anodized	
	Weight (g)	463.0	
	Dissipated power (Ths-amb,50℃)	34.0 (W)	
	Cooling surface area (mm ²)	83372	
	Thermal Resistance (Rhs-amb)	1.47 (°C/W)	

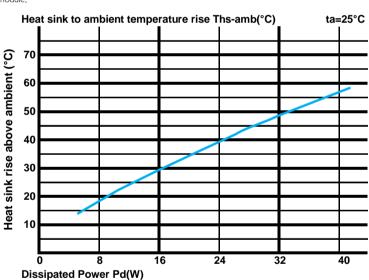
The thermal data table

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

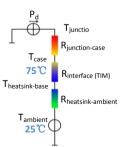
Pd - Dissipated power ; Pe - Electrical power ; ηL = Light effciency of the LED module;

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-11050	
Dissipated Power Pd(W)	8.0	2.25	18.0
	16.0	1.81	29.0
	24.0	1.63	39.0
	32.0	1.50	48.0
	40.0	1.40	56.0



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

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