xLED

xLED-VOS-4568 Pin Fin LED Heat Sink Φ45mm for Vossloh-Schwabe

Features VS Benefits

* The xLED-VOS-4568 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 300 to 1,400 lumen.
* Thermal resistance range Rth 4.76°C/W.
* Modular design with mounting holes foreseen for direct mounting of Vossloh-Schwabe COB series.
* Diameter 45.0mm - standard height 68.0mm Other heights on request.
* Forged from highly conductive aluminum.

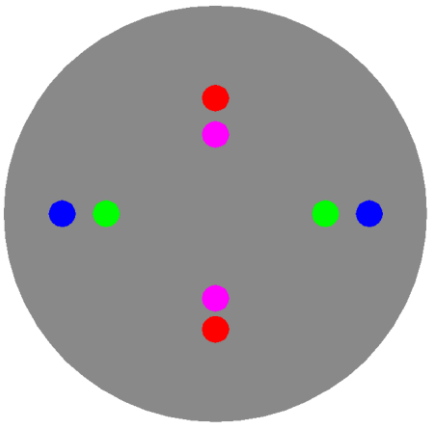
Zhaga LED engine and radiator assembly is a unified future international standardization

* 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.

VS LIGHTING SOLUTIONS

BJB

A.A.G. STUCCHI
ideas are made of light



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.

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Mingfa TECH

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Mounting Options and Drawings & Dimensions

Example:xLED-VOS-4568-B-1,2

Example:xLED-VOS-45 1 - 2 - 3

1 Height (mm)

2 Anodising Color

B-Black

C-Clear

Z-Custom

3 Mounting Options - see graphics for details Combinations available

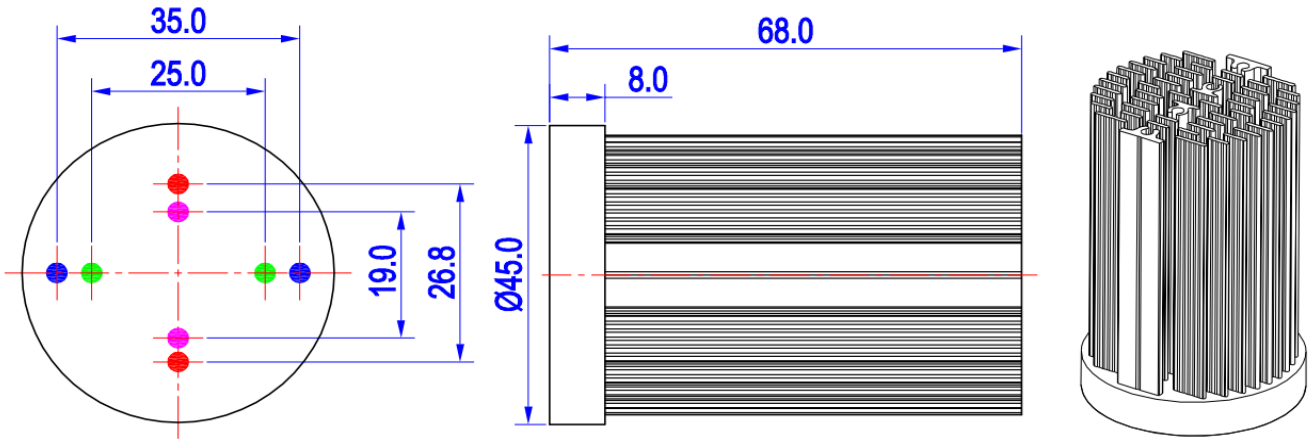
Ex.order code - 12

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



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The product deta table

xLED 	**Model No.**	**xLED-VOS-4568**
	Heatsink Size	**Φ45xH68mm**
	Heatsink Material	**AL1070**
	Finish	**Black Anodized**
	Weight (g)	**90.0**
	Dissipated power (Ths-amb,50℃)	**10.5 (W)**
	Cooling surface area (mm^2)	**49775**
	Thermal Resistance (Rhs-amb)	**4.76 (°C/W)**

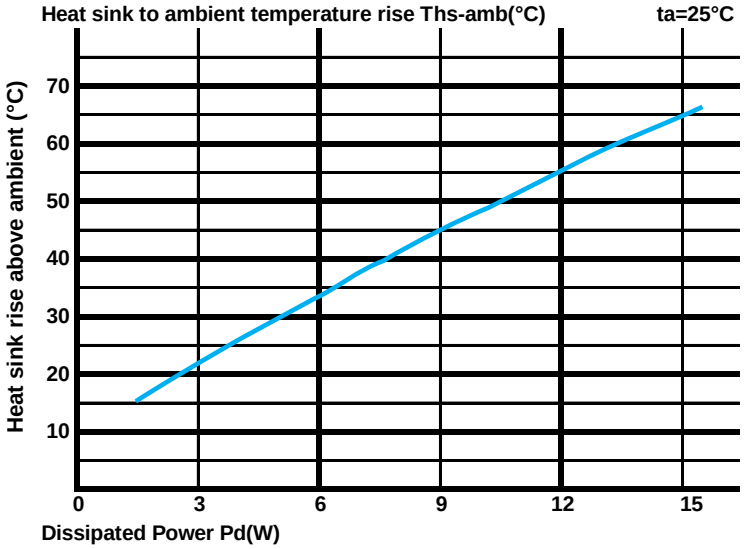
The thermal data table

* 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;

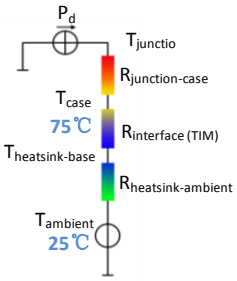
Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		xLED-VOS-4568	
Dissipated Power Pd(W)	3.0	7.00	21.0
	6.0	5.50	33.0
	9.0	5.00	45.0
	12.0	4.58	55.0
	15.0	4.27	64.0



*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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