

xLED-VOS-4530 Pin Fin LED Heat Sink Ø45mm for Vossloh-Schwabe

Features VS Benefits

- * The xLED-VOS-4530 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 1,200 lumen.
- * Thermal resistance range Rth 7.14°C/W.
- * Modular design with mounting holes foreseen for direct mounting of Vossloh-Schwabe COB series.
- * Diameter 45.0mm standard height 30.0mm 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; DMS1<u>28***G;</u>

DMS125***H; DMS126***H; DMS128***H;

Vossloh-Schwabe LUGA Shop TW COB Series:

TW 1914;

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 r

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





XLED

xLED-VOS-4530 Pin Fin LED Heat Sink Ø45mm for Vossloh-Schwabe

Mounting Options and Drawings & Dimensions

Example:xLED-VOS-4530-B-1,2 Example:xLED-VOS-45 1 -

Z-Custom

Notes:

- Mentioned models are an extraction of full product range.

Ex.order code - 12

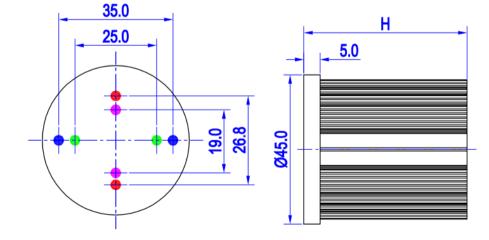
Mounting Options - see graphics for

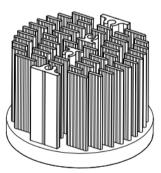
details Combinations available

means option 1 and 2 combined

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		/	M3	6.5mm	19.0mm/ 2-@180°
2	COB series (13.5*13.5)	BJB Holder 47.319.6294.50	M3	6.5mm	25.0mm/ 2-@180° (Zhaga book 11)
2	(*********)	AAG.STUCCHI 8100-G2	M3	6.5mm	
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





xLED-VOS-4530 Pin Fin LED Heat Sink Ø45mm for Vossloh-Schwabe

The product deta table

xLED	Model No.	xLED-VOS-4530	
	Heatsink Size	Ф45хН30mm	
	Heatsink Material	AL1070	
	Finish	Black Anodized	
	Weight (g)	45.0	
	Dissipated power (Ths-amb,50°C)	7.0 (W)	
	Cooling surface area (mm ²)	22830	
	Thermal Resistance (Rhs-amb)	7.14 (°C/W)	

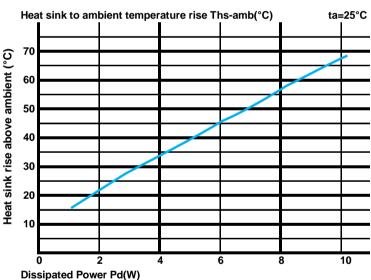
The thermal data table

* Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module.

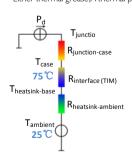
*To calculate the dissipated power please use the following formula: $Pd = Pe \times (I - \eta L)$.

Pd - Dissipated power ; Pe - Electrical power ; $\eta L = \mbox{Light effciency of the LED module;}$

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-4530	
Dissipated Power Pd(W)	2.0	10.50	21.0
	4.0	8.50	34.0
	6.0	7.50	45.0
	8.0	7.00	56.0
	10.0	6.70	67.0



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

 $\theta\,$ - 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 $R_{\text{junction-case}}$, the thermal resistance of the TIM outside the package is $R_{\text{interface (TIM)}}$ [°C/W], the thermal resistance with the heat sink is $R_{\text{heatsink-ambent}}$ [°C/W], and the ambient temperature is T_{ambent} [°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: $T_{junction}=(R_{junction-case}+R_{case-ambient})$ 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

