

Features VS Benefits

- * The GooLED-VOS-11080 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 2,500 to 7,000 lumen.
- * Thermal resistance range Rth 1.14°C/W.
- * Modular design with mounting holes foreseen for direct mounting of Vossloh-Schwabe COB series.
- * Diameter 110.0mm standard height 80.0mm 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.







GooLED-VOS-11080 Pin Fin LED Heat Sink Φ110mm for Vossloh-Schwabe

Mounting Options and Drawings & Dimensions

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Example:GooLED-VOS-11080-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

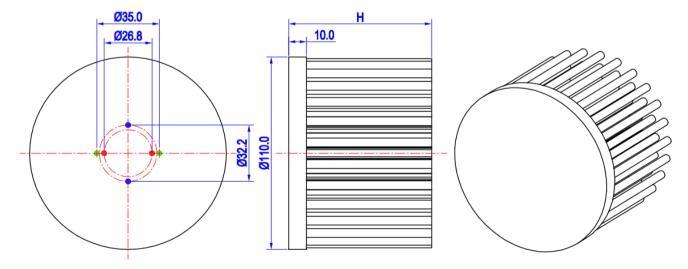
details Combinations available

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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GooLED-VOS-11080 Pin Fin LED Heat Sink Φ110mm for Vossloh-Schwabe

The product deta table

| GooLED | Model No. | GooLED-VOS-11080 |
|--------|---|------------------|
| 9 | Heatsink Size | Ф110xH80mm |
| | Heatsink Material | AL1070 |
| | Finish | Black Anodized |
| | Weight (g) | 617.0 |
| | Dissipated power (Ths-amb,50℃) | 44.0 (W) |
| | Cooling surface area (mm ²) | 129119 |
| | Thermal Resistance (Rhs-amb) | 1.14 (°C/W) |

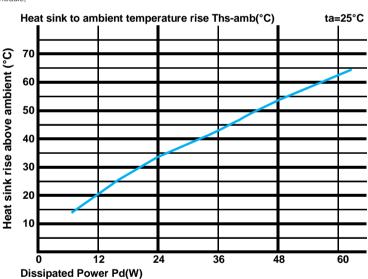
The thermal data table

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

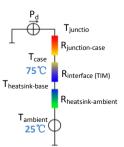
Pd - Dissipated power ; Pe - Electrical power ; ηL = Light effciency of the LED module;

| 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-11080 | |
| Dissipated Power Pd(W) | 12.0 | 1.67 | 20.0 |
| | 24.0 | 1.38 | 33.0 |
| | 36.0 | 1.17 | 42.0 |
| | 48.0 | 1.10 | 53.0 |
| | 60.0 | 1.03 | 62.0 |



*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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