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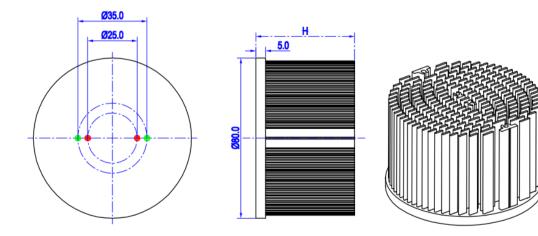




means option 1 and 2 combined

- MingfaTech reserves the right to change products or specifications without prior notice.

| MOUNTING | Module type | Holder NO. | LEDiL products | | THREAD | THREAD | THREAD HOLE |
|----------|----------------------------|------------------------------|--------------------------|---------------|--------|--------|-----------------------------------|
| OPTION | | | Olivia series | Ronda series | INKEAD | DEPTH | DISTANCE |
| Ν | / | None | None | None | None | None | None |
| 1 | L026B; L033B; L040B; | / | / | / FN15xxx; | M3 | 6.5mm | 30.4mm/ 2-@180° |
| 2 | | BJB Holder 47.319.2254.50 | | | МЗ | 6.5mm | 35.0mm/ 2-@180° (Zhaga book 3) |
| | | TE Holder 2213258-1 | | | | | |
| | L016D; L018D; L026D; | BJB Holder 47.319.2021.50 | FN14828-M; FN14637-S; | | | | |
| | | TE Holder 2213254-1 | | | | | |
| | L040C; | TE Holder 2213382-1 | / | | | | |



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xLED-SAM-8050 Pin Fin LED Heat Sink Ø80mm for Samsung

The product deta table

| xLED | Model No. | xLED-SAM-8050 | |
|------|---|----------------|--|
| | Heatsink Size | Ф80хН50mm | |
| | Heatsink Material | AL1070 | |
| | Finish | Black Anodized | |
| | Weight (g) | 197.0 | |
| | Dissipated power (Ths-amb,50℃) | 21.0 (W) | |
| | Cooling surface area (mm ²) | 120774 | |
| | Thermal Resistance (Rhs-amb) | 2.38 (°C/W) | |

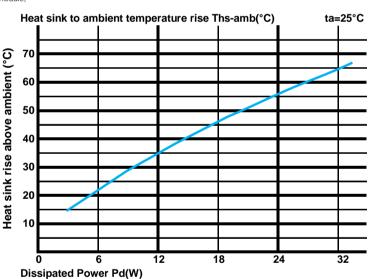
The thermal data table

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

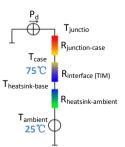
Pd - Dissipated power ; Pe - Electrical power ; ηL = Light effciency of the LED module;

| 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-SAM-8050 | | |
| Dissipated Power Pd(W) | 6.0 | 3.50 | 21.0 | |
| | 12.0 | 2.92 | 35.0 | |
| | 18.0 | 2.56 | 46.0 | |
| | 24.0 | 2.29 | 55.0 | |
| | 32.0 | 2.00 | 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: $\theta = (Ths - Ta)/Pd$

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

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