

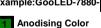
Features VS Benefits

- * Mechanical compatibility with direct mounting of the LED modules to the LED cooler and thermal performance matching the lumen packages.
- * For spotlight and downlight designs from 1,300 to 3,700 lumen.
- * Thermal resistance range Rth 1.96°C/W.
- * Modular design with mounting holes foreseen for direct mounting of a wide range of LED modules and COB's:
- * Diameter 78.0mm Standard height 80.0mm , Other heights on request.
- * Forged from highly conductive aluminum.
- * 2 standard colors clear anodised black anodised.
- * Zhaga Book 3 Spot Light modules: Bridgelux ,Cree ,Citizen ,Edison ,GE lighting, LG Innotek ,Lumileds ,Lumens ,Luminus ,Nichia ,Osram ,Philips ,Prolight Opto, Samsung ,Seoul ,Tridonic ,Vossloh-Schwabe ,Xicato.
- 01) Bridelux: Vero 18/22 Vero SE 18/29 LED engines;
- 02) Cree: XLamp CXA 25xx, Xlamp CXB 25xx, CXA 30xx, Xlamp CXB 30xx LED eng
- 03) Citizen: CLU036, CLU038, CLU721, CLU711, CLU046, CLU048, CLU731 LED engines;
- 04) Edison: EdiLex III COB LED engines;
- 05) GE lighting: Infusion™ LED engines;
- 06) LG Innotek: 32W, 42W, 56W LED engines;
- 07) LumiLEDS: LUXEON 1211, LUXEON 1216, LUXEON 1812, LUXEON 1825 LED eng
- 08) Lumens: Ergon-COB-2530, 2540, 3050, 3070 LED engines;
- 09) Luminus: CXM-18, CLM-22, CXM-22 LED engines;
- 10) Nichia: NFCWL036B, NFCLL036B, NFCWL060B, NFCLL060B LED engines;
- 11) Osram: SOLERIQ® S 19, Core series LED engines;
- 12) Philips: Fortimo SLM LED engines;
- 16) Prolight Opto: PABS, PABA, PACB, PANA LED engines;
- 13) Samsung: LC026B, LC033B, LC040B, LC040D, LC060D, LC080D LED engines;
- 14) Seoul Semiconductor: Acrich MJT COBs, DC COB LED engines;
- 15) Tridonic: SLE G6 19mm, SLE G6 23mm LED engines;
- 17) Vossloh-Schwabe: LUGA Shop and LUGA C LED engines;
- 18) Xicato: XSM, XIM,XTM LED engines;

Order Information

Example:GooLED-7880-B

Example:GooLED-7880-



B-Black C-Clear

Z-Custom

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.









































Tel: +86-769-39023131

E-fax: +86-(020)28819702 ext22122

Http://www.heatsinkled.com Http://www.mingfatech.com





The product deta table

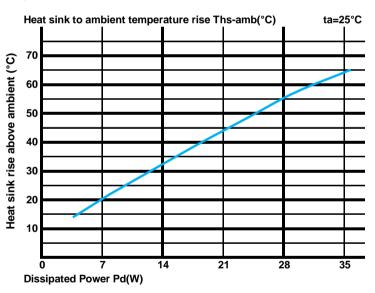


| Model No. | GooLED-7880 | |
|--------------------------------|----------------|--|
| Heatsink Size | Ф78хH90mm | |
| Heatsink Material | AL1070 | |
| Finish | Black Anodized | |
| Weight (g) | 316.0 | |
| Dissipated power (Ths-amb,50℃) | 25.5 (W) | |
| Cooling surface area (mm²) | 114798 | |
| Thermal Resistance (Rhs-amb) | 1.96 (°C/W) | |

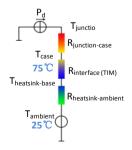
The thermal data table

- * 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; $\eta L = \text{Light effciency of the LED module}$;

| 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-7880 | |
| Dissipated Power Pd(W) | 7.0 | 2.86 | 20.0 |
| | 14.0 | 2.29 | 32.0 |
| | 21.0 | 2.10 | 44.0 |
| | 28.0 | 1.96 | 55.0 |
| | 35.0 | 1.80 | 63.0 |



- *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: $\theta = (Ths - Ta)/Pd$
- 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 $R_{\text{function-case}}$, the thermal resistance of the TIM outside the package is $R_{\text{interface}}$ (TIM) ["CM], 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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