



xLED-4530 Pin Fin Heat Sink Ф45mm

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 300 to 1,200 lumen.
- * Thermal resistance range Rth 7.14°C/W.
- * Modular design with mounting holes foreseen for direct mounting of a wide range of LED modules and COB's:
- * Diameter 45.0mm Standard height 30.0mm , 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 10/13 Vero SE 10/13 LED engines;
- 02) Cree: XLamp CXA 13xx, Xlamp CXB 15xx, CXA 18xx LED engines;
- 03) Citizen: CLU026, CLU028, CLU036, CLU038, CLU721, CLU711, CLU701 LED engines;
- 04) Edison: EdiLex III COB LED engines;
- 05) GE lighting: Infusion™ LED engines;
- 06) LG Innotek: 7W, 10W, 16W, W21 LED engines;
- 07) LumiLEDS: LUXEON 1202, LUXEON 1203 LED engines;
- 08) Lumens: Ergon-COB-15xx, 18xx LED engines;
- 09) Luminus: CXM-6-AC, CIM/CLM/CXM-9 -A LED engines;
- 10) Nichia: NVxxx024Z, NVxxx036Z LED engines;
- 11) Osram: SOLERIQ® S 9/S13, Z6 Mini LED engines;
- 12) Philips: Fortimo SLM LED engines;
- 16) Prolight Opto: PACJ-7xxx-xxxx, PACJ-14xxx-xxxx, PACJ-21xxx LED engines;
- 13) Samsung: L010C, L020C, L003D, L006D, L009D, L013D LED engines;
- 14) Seoul Semiconductor: Acrich MJT COBs, DC COB LED engines;
- 15) Tridonic: SLE G6 10mm, SLE G6 15mm LED engines;
- 17) Vossloh-Schwabe: LUGA Shop and LUGA C LED engines;
- 18) Xicato: XTM LED engines;

Order Information

Example:xLED-4530-B

Example:xLED-4530-



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.









































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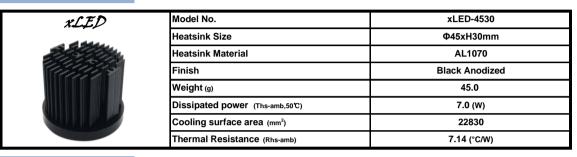
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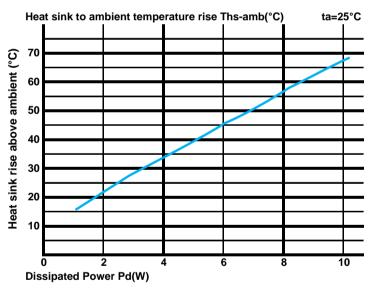
The product deta table



The thermal data table

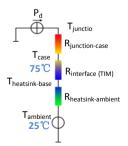
- * Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module.
- *To calculate the dissipated power please use the following formula: $Pd = Pe x (1-\eta L)$.
 - Pd Dissipated power; Pe Electrical power; ηL = Light effciency of the LED module;

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-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 Geometric shapes are different, the thermal resistance is different. Formula: $\theta = (Ths-Ta)/Pd$
- θ Thermal Resistance [°C/W] ; Ths Heatsink temperature ; Ta Ambient
- *The thermal resistance between the junction section of the light-emitting diode and the aluminum substrate side of the shell is $R_{junction\text{-}case}$, the thermal resistance of the TIM outside the package is $R_{interface\ (TIM)}$ [°C/W], the thermal resistance with 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_{iunction}=(R_{iunction-case}+R_{case-ambient})-Pd+T_{ambient}

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