

Features VS Benefits

- * The xLED-XIT-6050 Xicato Pin Fin LED Heat Sinks are specifically designed for luminaires using the Xicato 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 900 to 2,200 lumen.
- * Thermal resistance range Rth 3.85°C/W.
- * Modular design with mounting holes foreseen for direct mounting of Xicato XSA/ XIM/ XTM modules.
- * Diameter 60.0mm standard height 50.0mm,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 Seoul 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.





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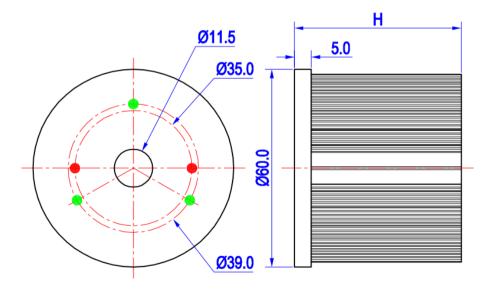


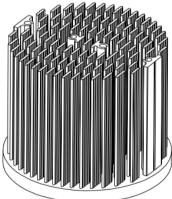


- For specific mechanical adaptations please contact MingfaTech. - MingfaTech reserves the right to change products or specifications without prior notice.

means option 1 and 2 combined

MOUNTING OPTION	PART NUMBER	THREAD	THREAD DEPTH	THREAD HOLE DISTANCE
Ν	xLED-XIT-6050-M3-#-N	М3	6.5mm	39.0mm/ 3-@120°
1	xLED-XIT-6050-M3-#-1	М3	6.5mm	35.0mm/ 2-@180° (Zhaga Book 3)
2	xLED-XIT-6050-M3-#-2	М3	Φ11.5mm	Through-Hole





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XLED

xLED-XIT-6050 Pin Fin LED Heat Sink Φ60mm for Xicato

The product deta table

хLED	Model No.	xLED-XIT-6050
	Heatsink Size	Ф60хН50mm
	Heatsink Material	AL1070
Carrier St	Finish	Black Anodized
	Weight (g)	112.0
	Dissipated power (Ths-amb,50℃)	13.0 (W)
	Cooling surface area (mm²)	68473
	Thermal Resistance (Rhs-amb)	3.85 (°C/W)

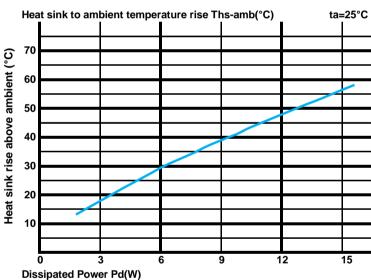
The thermal data table

* 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 ; $\eta L =$ 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-XIT-6050	
Dissipated Power Pd(W)	3.0	5.67	17.0
	6.0	4.83	29.0
	9.0	4.22	38.0
	12.0	4.00	48.0
	15.0	3.73	56.0



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

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Tjunctio

T_{case}

75℃

Theatsink-base

Tambien

25°C

Riunction-case

Rinterface (TIM)

R_{heatsink-ambient}



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