

## xLED-XIT-6030 Pin Fin LED Heat Sink Ø60mm for Xicato

## Features VS Benefits

- \* The xLED-XIT-6030 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 500 to 1,600 lumen.
- \* Thermal resistance range Rth 5.0°C/W.
- \* Modular design with mounting holes foreseen for direct mounting of Xicato XSA/ XIM/ XTM modules.
- \* Diameter 60.0mm standard height 30.0mm,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.



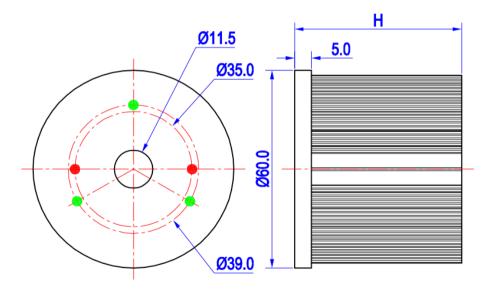
	rectly Mounting Options	
Xicato XSM LED mod	ules name :	
XSM8027-xxxx ;	XSM9530-xxxx ;	
XSM8030-xxxx ;	XSM9540-xxxx ;	
XSM8040-xxxx ;	XSMV830-xxxx ;	
XSM9527-xxxx ;		
Direct mounting with 3 so	crewsM3 x 12mm;	
Green indicator marks.		
Xicato XIM LED modul	es name :	
XIM198027-xxx ;	XIM198040-xxx ;	XIM09-V9xxxxxx ;
XIM198030-xxx ;	XIM19V830-xxx ;	
XIM198035-xxx ;	XIM0980 xxxxxx ;	
Direct mounting with 3 so	crews M3 x 20mm;	
Green indicator marks.		
Xicato XTM LED mod	ules:	
XTM19-8027-xxx :	XTM19-8040-xxx :	XTM0995 xxxxxx :
XTM19-8030-xxx ;	XTM19-V830-xxx ;	
XTM19-8035-xxx ;	XTM09-V9xxxxxx ;	
Direct mounting with 3 so	crews M3 x 10mm;	
Green indicator marks.		
Direct mounting by Zhag	a mounting holes with 2 scre	wsM3x8mm;
Red indicator marks.		

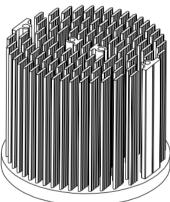
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MOUNTING OPTION	PART NUMBER	THREAD	THREAD DEPTH	THREAD HOLE DISTANCE
Ν	xLED-XIT-6030-M3-#-N	М3	6.5mm	39.0mm/ 3-@120°
1	xLED-XIT-6030-M3-#-1	М3	6.5mm	35.0mm/ 2-@180° (Zhaga Book 3)
2	xLED-XIT-6030-M3-#-2	М3	Φ11.5mm	Through-Hole





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XLED

xLED-XIT-6030 Pin Fin LED Heat Sink Φ60mm for Xicato

## The product deta table

xLED	Model No.	xLED-XIT-6030
	Heatsink Size	Ф60хH30mm
	Heatsink Material	AL1070
	Finish	Black Anodized
	Weight (g)	80.0
	Dissipated power (Ths-amb,50℃)	10.0 (W)
	Cooling surface area (mm <sup>2</sup> )	40973
	Thermal Resistance (Rhs-amb)	5.0 (°C/W)

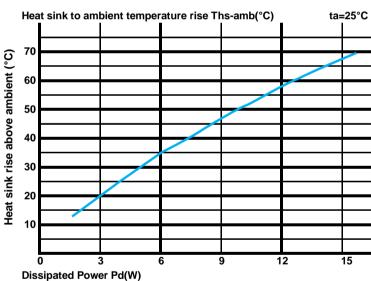
## The thermal data table

\* 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-6030	
Dissipated Power Pd(W) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	3.0	6.67	20.0
	5.67	34.0	
	5.11	46.0	
	12.0	4.83	58.0
	15.0	3.80	57.0



\*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  $R_{nterface (TIM)}$  [°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  $R_{\text{interface (TIM)}}$  and  $R_{\text{heatsink-ambient}}$  can be integrated

into the thermal resistance  $\mathsf{R}_{\text{case-ambient}}$  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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Tjunctio

T<sub>case</sub>

**75℃** 

Theatsink-base

Tambien

25°C

Riunction-case

Rinterface (TIM)

R<sub>heatsink-ambient</sub>

