

MechaTronix in LED

XSA-61 Pin Fin Heat Sink ϕ 50mm for Xicato



Features & Benefits

- Designed for Xicato XSM LED spot modules
- Xicato thermal class E (60° tilt angle, 40°C ambient)
- Thermal resistance Rth 5.1°C/W
- Forged from highly conductive aluminum AL-1070
- Diameter 50mm - height 50mm- weight 59.26g
- Standard colors - clear anodised - black anodised
- Other colors and finishings on request (all RAL/Pantone colors available)



Order Information

XICATO

Example : XSA-61-M2-B-3

XSA-61- **1** - **2** - **3**

- 1** XSM Mounting
"M2" - M2 screw threads
"M3" - M3 screw threads
- 2** Anodising color
"B" - Black Anodised
"C" - Clear Anodised
"Z" - Custom (specify)
- 3** Mounting Options - see graphics for details
Combinations available
Ex. order code - 13
means option 1 and 3 combined

MOUNTING OPTION	THREAD	THREAD DEPTH
NONE/BLANC	NONE	NONE
1	M14 x 1.5	5mm MIN.
2	#9/16-12UNC	0.19" MIN.
3	M50 x 2	Base contour

MechaTronix in LED

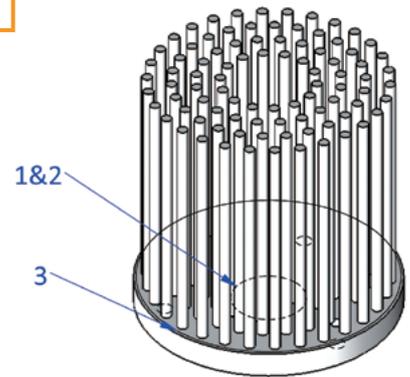
XSA-61 Pin Fin Heat Sink ϕ 50mm for Xicato



Product Details

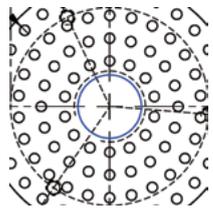
	Total Height ^{mm}	Rth(°C/W)	Volume ^{mm³}	Cooling Surface ^{mm²}	Weight ^{gr}
XSA-61	50	5.1	21947.95	30222.88	59.26

Mounting Options

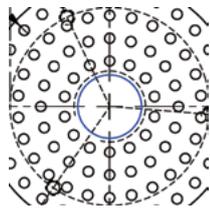


Notes:

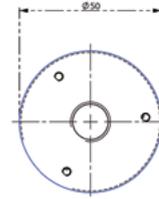
- MechaTronix reserves the right to change products or specifications without prior notice.
- Mentioned models are an extraction of the full product range. For specific mechanical adaptations please contact MechaTronix.
- All these types are made by forging process from highly conductive aluminum type AL1070 with a typical Thermal Conductivity of 209W/m-K.



1 Mechanical version
Center hole tapping
M14x1.5
Through out 5mm base



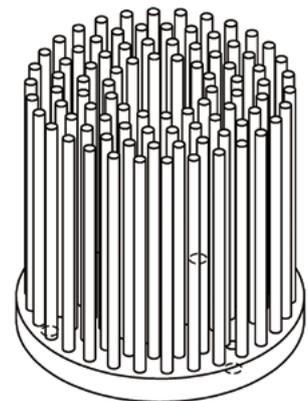
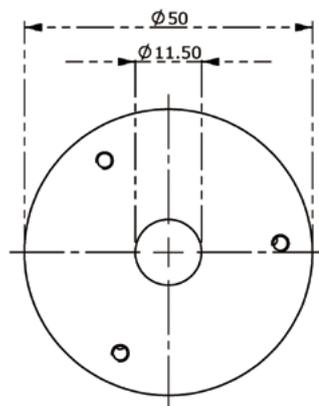
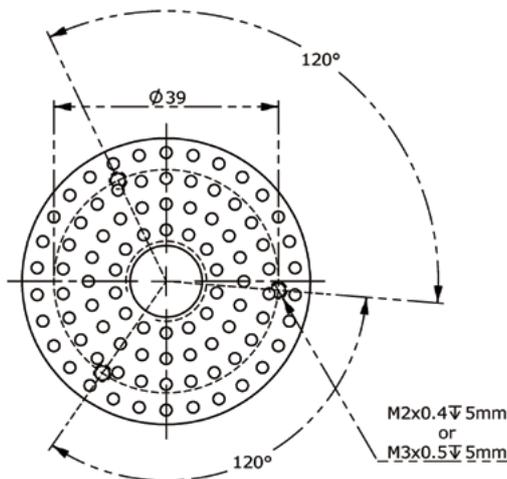
2 Mechanical version
Center hole tapping
#9/16-12UNC
Through out 5mm base



3 Mechanical version
M50x2
Screw thread around
base contour

Drawings & Dimensions

Example : XSA-61-M2



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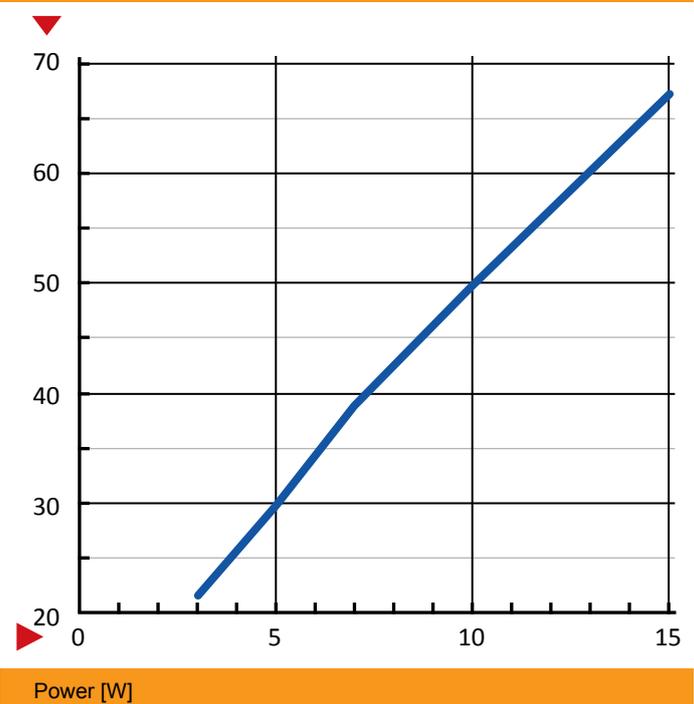


Thermal Data

Heat sink base to ambient thermal resistance, R_{hs-amb} [K/W]

Power (W)	XSA-61
3	7.0
5	6.1
7	5.6
10	5.0
15	4.5
$R_{th Av.}$	5.1

Heat sink to ambient temperature difference [°C]



Spreading resistance, R_{sp} [K/W]

Base thickness	Ratio of light engine (LE) area over heat sink base area, ALE/Ahs [%]				
	t=2mm	t=3mm	t=5mm	t=10mm	
Ratio of light engine (LE) area over heat sink base area, ALE/Ahs [%]	1%	0.87	0.61	0.41	0.30
	3%	0.68	0.47	0.30	0.20
	5%	0.54	0.37	0.24	0.15
	8%	0.44	0.30	0.19	0.12
	11%	0.36	0.24	0.15	0.09
	20%	0.24	0.17	0.10	0.06
	32%	0.16	0.11	0.07	0.04
	62%	0.06	0.04	0.03	0.01

Heat sink base spreading resistance, R_{sp} [K/W], based on base thickness, t

