

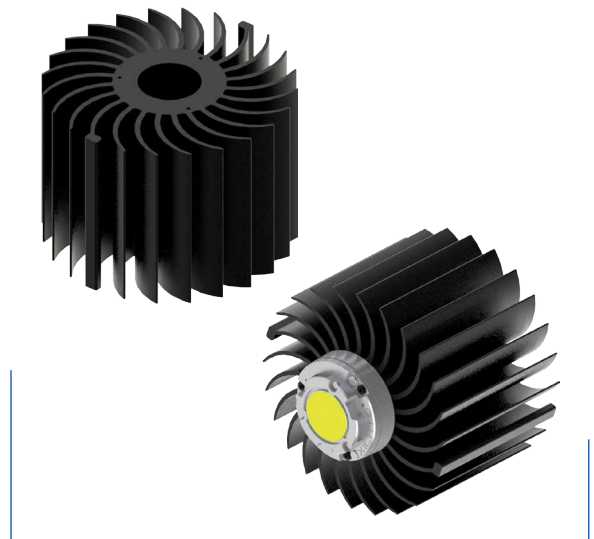
MechaTronix in LED

XSA-27 Xicato XSM LED Star Heat Sink \varnothing 99mm



Features & Benefits

- Designed for Xicato XSM series - thermal class N
- Xicato accessory reference XSA-27
- Thermal resistance Rth 1.2°C/W
- Can be foreseen from M2 or M3 mounting holes
- Diameter 99.4mm base
- Standard height 70mm - other heights on request
- Extruded from highly conductive aluminium
- Standard colors - clear anodised - black anodised
- Other colors and finishings on request (all RAL/Pantone colors available)



Order Information

XICATO

Example : XSA-27-M2-B-3

XSA-27 - **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	M3 x 0.5	6mm MIN.
2	#6-32 UNC	0.35" MIN.
3	M2 x 0.4	4mm MIN.
4	#4-40 UNC	0.17" MIN.
5	M2 x 0.4	4mm MIN.

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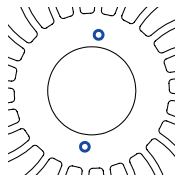
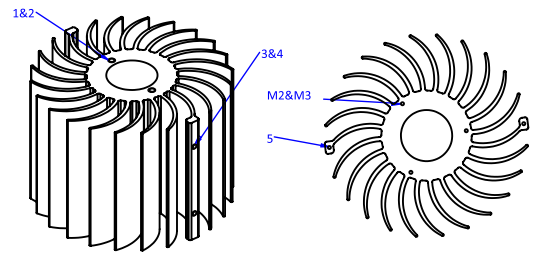
Product Details

	Total Height ^{mm}	Rth($^{\circ}$ C/W)	Volume ^{mm³}	Cooling Surface ^{mm²}	Weight ^{gr}
XSA-27	70.00	1.2	169552.12	125880.54	457.79

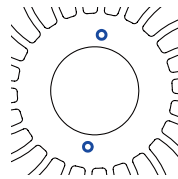
Mounting Options

Notes:

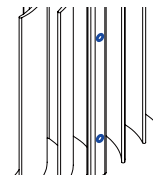
- MechaTronix reserves the right to change products or specifications without prior notice.
- Mentioned models are an extraction of the full product range. For specific mechanical adaptations please contact MechaTronix.
- All these types are made by extrusion process from highly conductive aluminum type AL6063 T5 with a typical Thermal Conductivity of 209W/m-K.



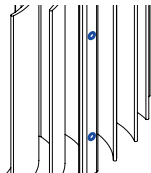
1 Mechanical version
Top side center hole tapping 2 holes
M3x0.5
Depth>6mm



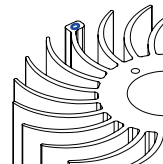
2 Mechanical version
Top side center hole tapping 2 holes
#6-32 UNC
Depth>0.35"mm



3 Mechanical version
Side hole tapping 4 holes M2x0.4
Depth>4mm



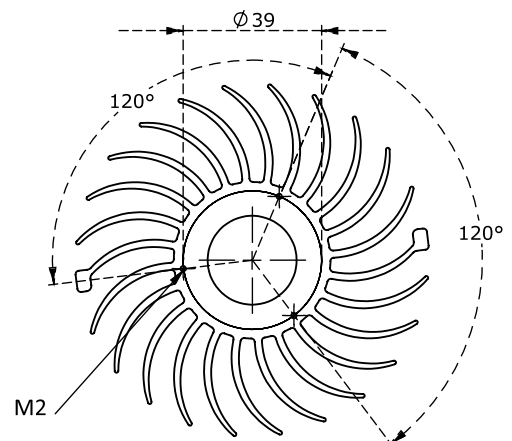
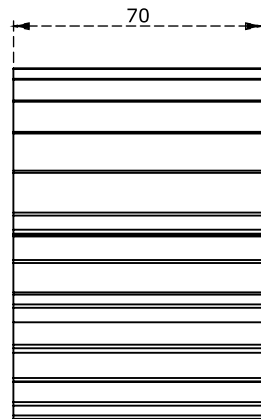
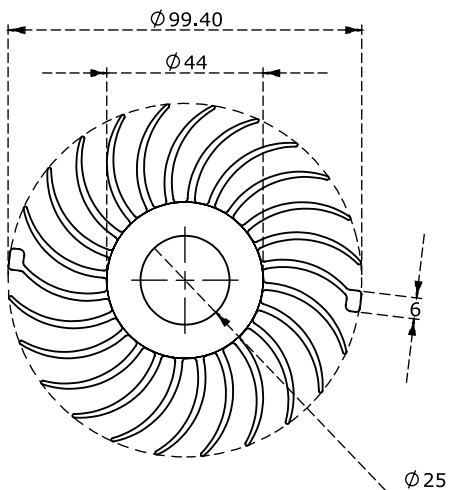
4 Mechanical version
Side hole tapping 4 holes #4-40 UNC
Depth>0.17"mm



5 Mechanical version
Bottom side hole tapping 2 holes
M2x0.4
Depth>4mm

Drawings & Dimensions

Example : XSA-27-M2



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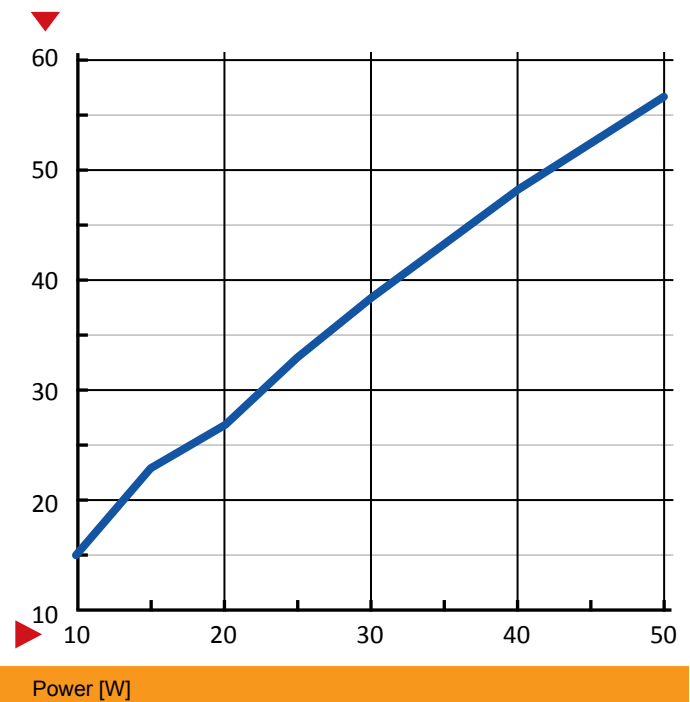


Thermal Data

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

Power (W)	XSA-27
10	1.6
15	1.4
20	1.4
25	1.3
30	1.3
40	1.2
50	1.2
$R_{th Av.}$	1.2

Heat sink to ambient temperature difference [°C]

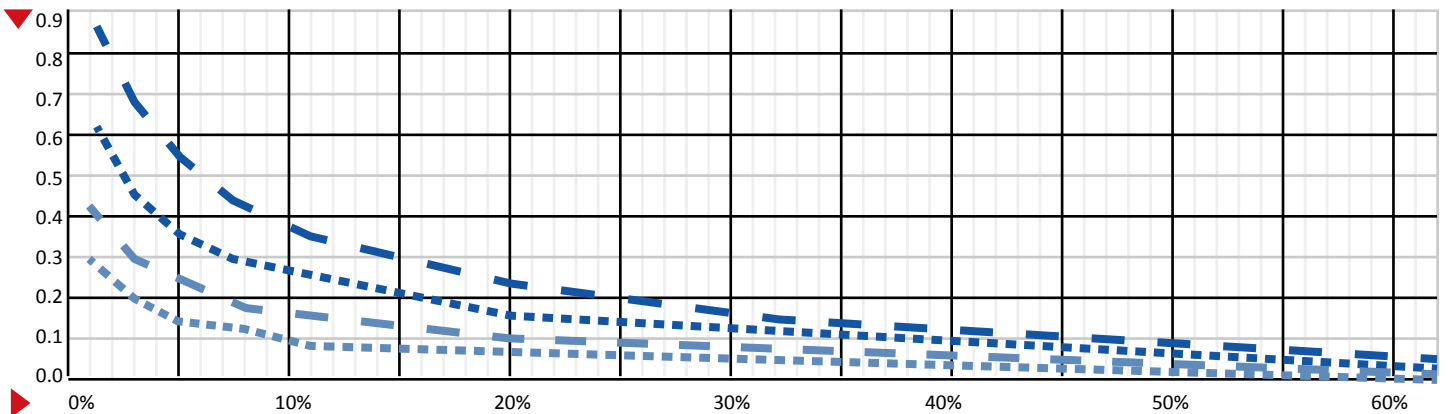


Spreading resistance, R_{sp} [K/W]

Base thickness	Ratio of light engine (LE) area over heat sink base area, ALE/Ahs [%]	t=2mm	t=3mm	t=5mm	t=10mm
		1%	0.87	0.61	0.41
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

Spreading resistance, R_{sp} [K/W] vs Ratio of light engine (LE) area over heat sink base area, ALE/Ahs [%]. Legend: t=2mm (solid blue), t=3mm (dashed blue), t=5mm (dotted blue), t=10mm (dash-dot blue).



Ratio of light engine (LE) area over heat sink base area, ALE/Ahs [%]