

# MechaTronix in LED

## XSA-64 Pin Fin Heat Sink $\phi$ 70mm for Xicato



### Features & Benefits

- Designed for Xicato XSM LED spot modules
- Xicato thermal class G ( 60° tilt angle, 40°C ambient )
- Thermal resistance Rth 3.0°C/W
- Forged from highly conductive aluminum AL-1070
- Diameter 70mm - height 50mm- weight 146.54g
- Standard colors - clear anodised - black anodised
- Other colors and finishings on request ( all RAL/Pantone colors available )



### Order Information

# XICATO

Example : XSA-64-M2-B-3

XSA-64- **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	M70 x 2	Base contour

# MechaTronix in LED

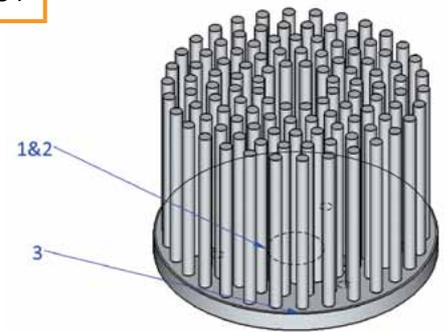
## XSA-64 Pin Fin Heat Sink $\phi$ 70mm for Xicato



### Product Details

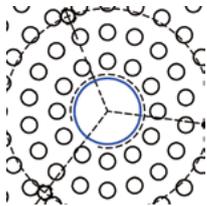
	Total Height <sup>mm</sup>	R <sub>th</sub> (°C/W)	Volume <sup>mm<sup>3</sup></sup>	Cooling Surface <sup>mm<sup>2</sup></sup>	Weight <sup>gr</sup>
XSA-64	50	3.0	54274.94	56358.60	146.54

### Mounting Options

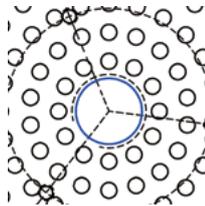


#### Notes:

- 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

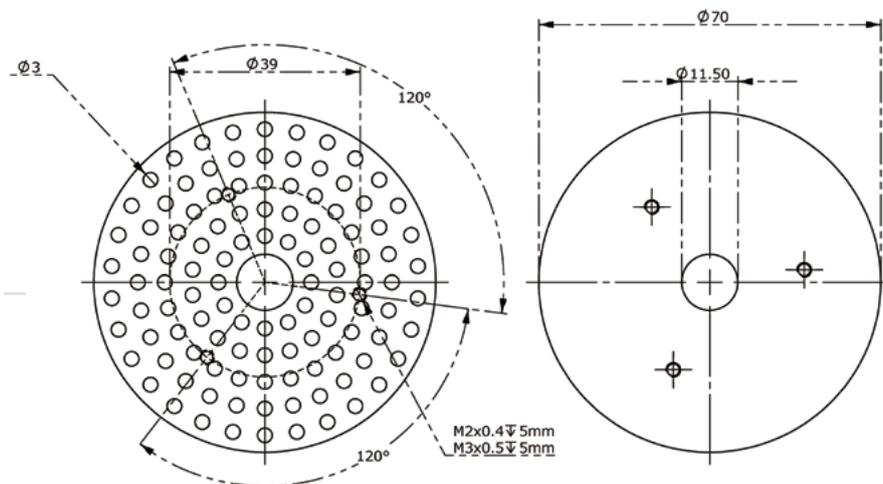


**2** Mechanical version  
Center hole tapping  
  
#9/16-12UNC  
Through out 5mm base

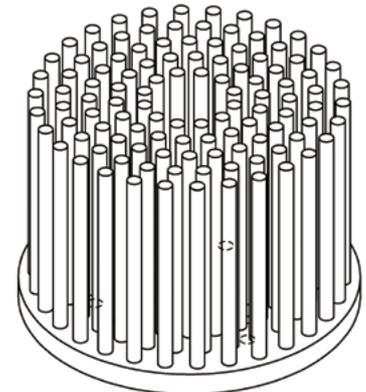


**3** Mechanical version  
M70x2  
  
Screw thread around  
base contour

### Drawings & Dimensions



### Example : XSA-64-M2



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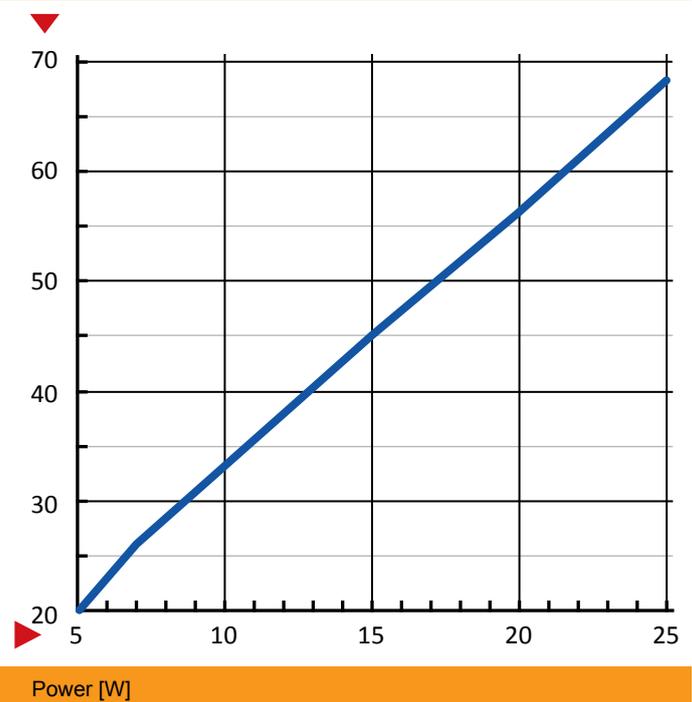


### Thermal Data

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

Power (W)	XSA-64
5	4.0
7	3.7
10	3.4
15	3.1
20	2.9
25	2.7
$R_{th Av.}$	3.0

#### 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, $t$

