

XSA-64 Pin Fin Heat Sink ϕ 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

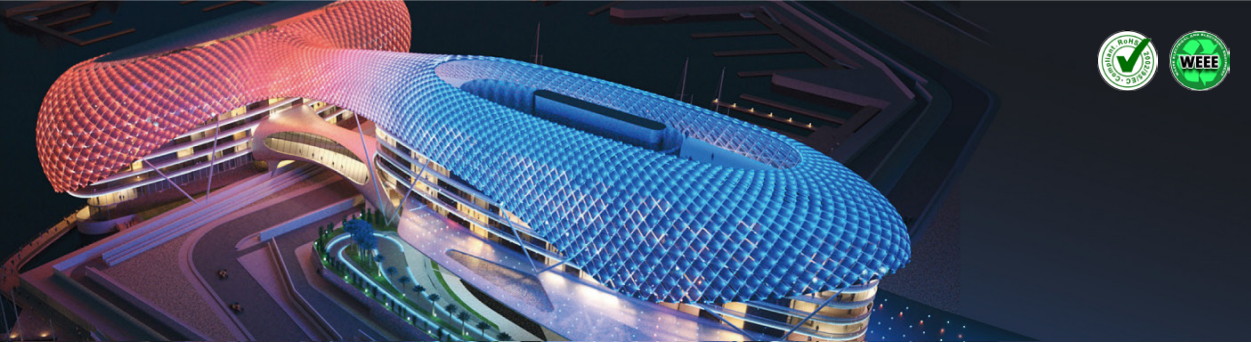
XICATO

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

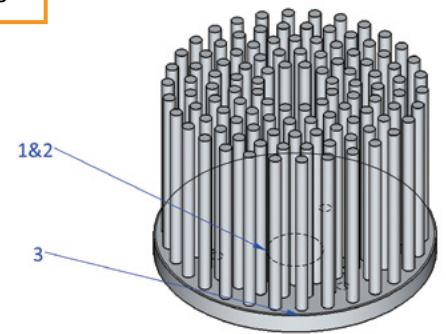


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Product Details

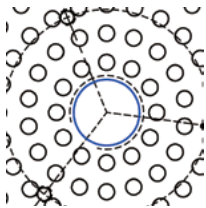
	Total Height ^{mm}	Rth($^{\circ}$ C/W)	Volume ^{mm³}	Cooling Surface ^{mm²}	Weight ^{gr}
XSA-64	50	3.0	54274.94	56358.60	148

Mounting Options



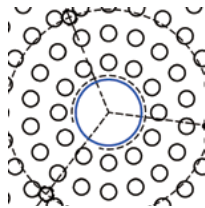
Notes:

1. MechaTronix reserves the right to change products or specifications without prior notice.
2. Mentioned models are an extraction of the full product range. For specific mechanical adaptations please contact MechaTronix.
3. 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

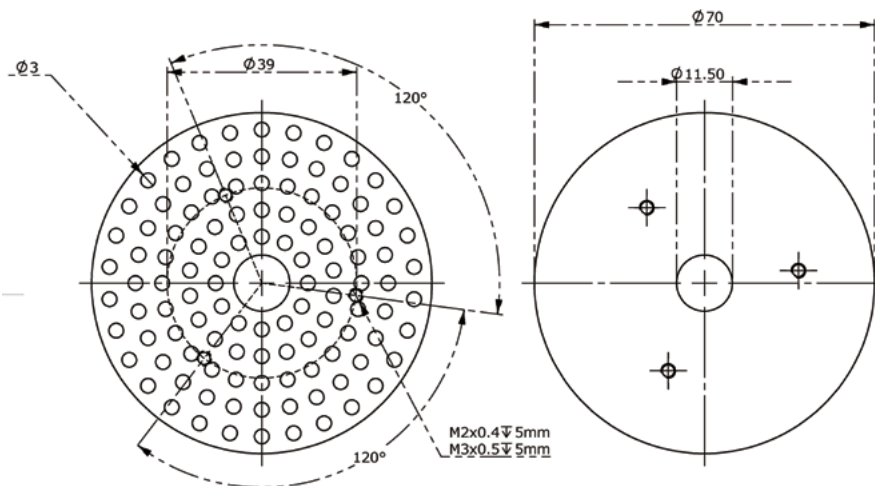
#9/16-12UNC
Through out 5mm base



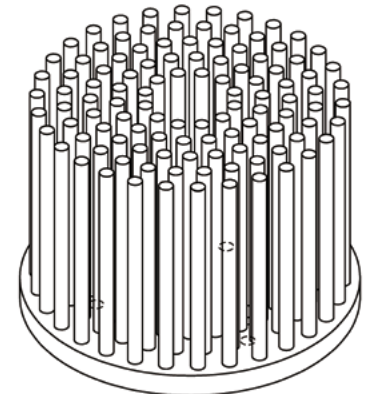
3 Mechanical version
M70x2

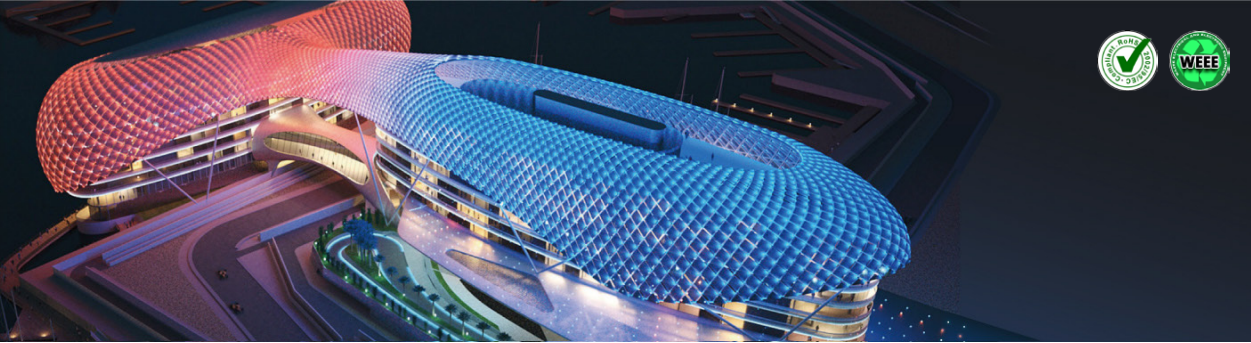
Screw thread around
base contour

Drawings & Dimensions



Example : XSA-64-M2





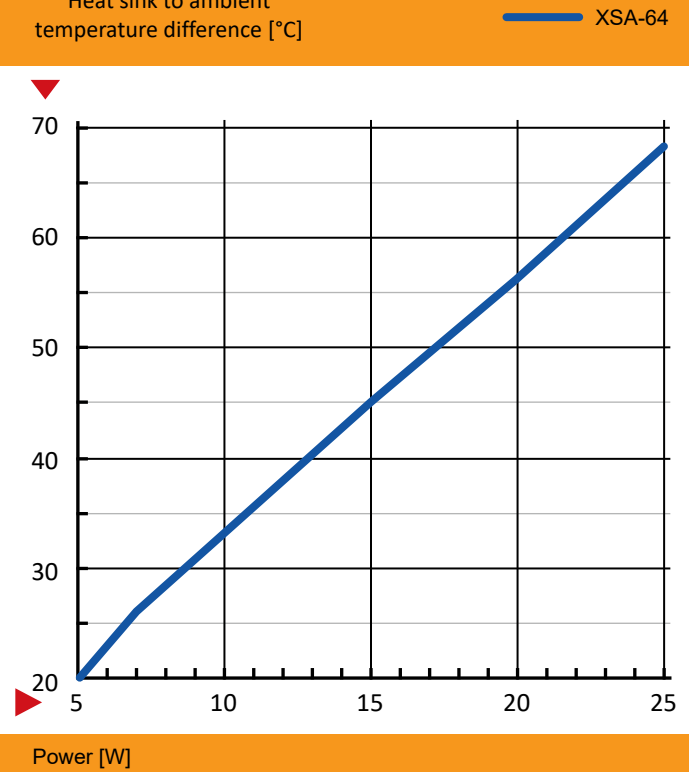
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Thermal Data

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	
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

