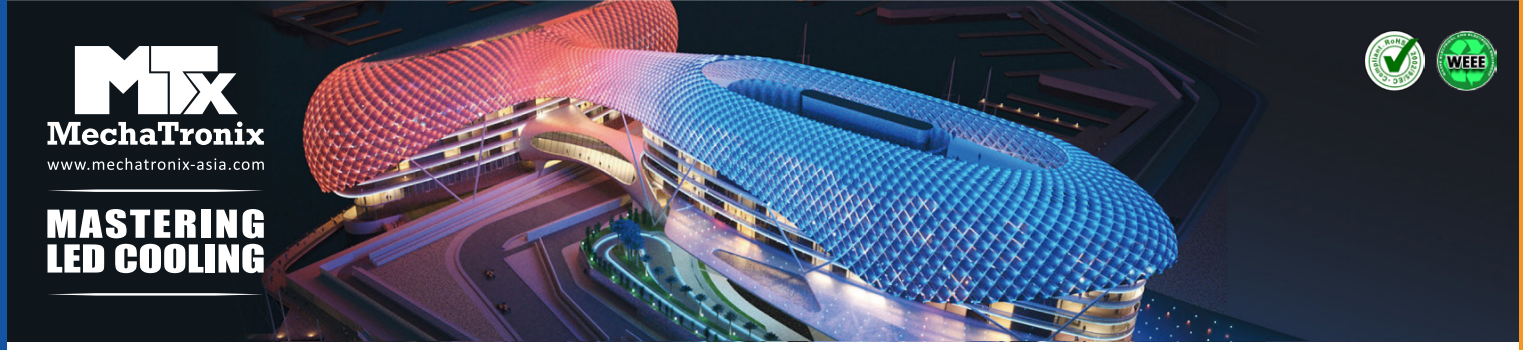


# XSA-61 Pin Fin Heat Sink ø 50mm for Xicato

## Features & Benefits

- Designed for Xicato XIM 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 |

No.818, Dashun 2nd Rd., Sanmin Dist., Kaohsiung City 80787, Taiwan
sales@mechatronix-asia.com www.led-heatsink.com www.mechatronix-asia.com
Tel: +886-7-381-5892 Fax: +886-7-383-9293 VAT: 28600841

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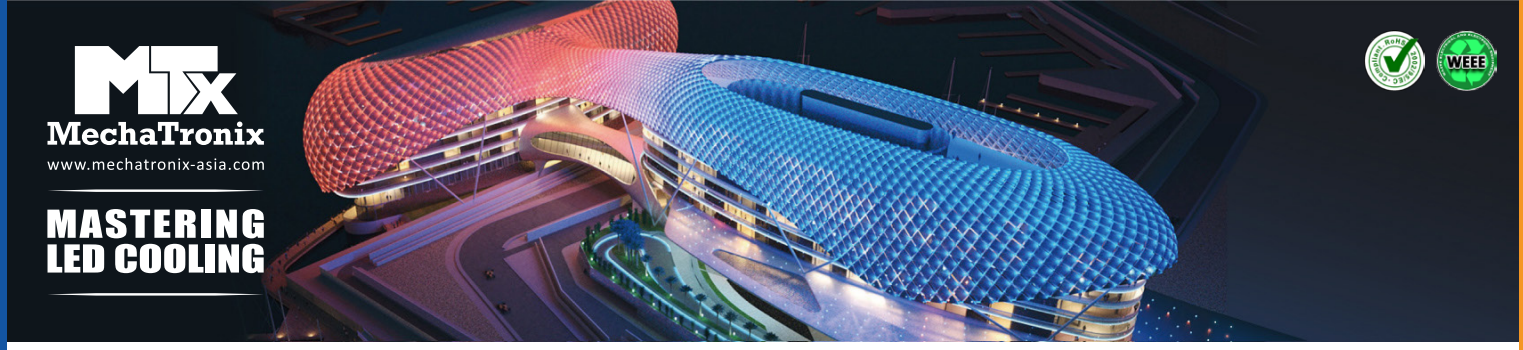



# XSA-61 Pin Fin Heat Sink ø 50mm for Xicato

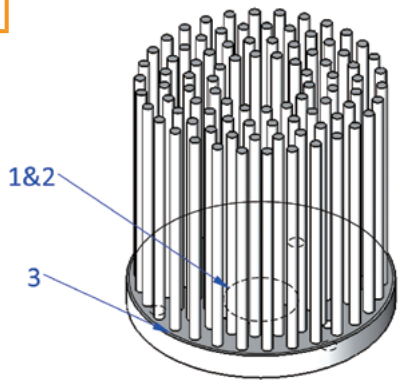
## Product Details

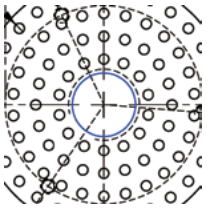
| | Total Height[mm] | Rth(°C/W) | Volume[mm3] | Cooling Surface[mm2] | Weight[gr] |
|---|---|---|---|---|---|
| XSA-61 | 50 | 5.1 | 21947.95 | 30222.88 | 70 |

### 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.

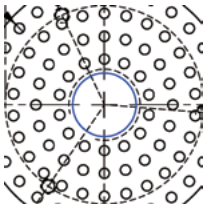
### Mounting Options



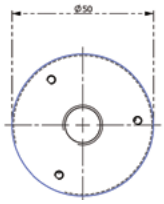
**1** Mechanical version
Center hole tapping

M14x1.5
Through out 5mm base



**2** Mechanical version
Center hole tapping

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

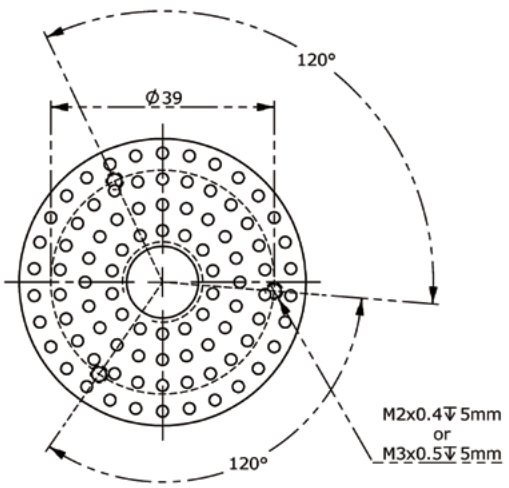


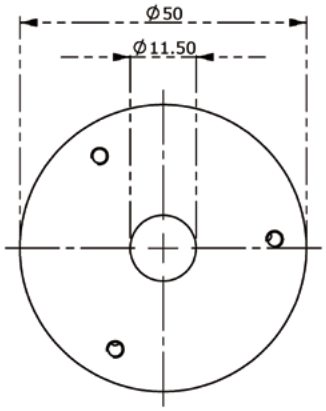

**3** Mechanical version
M50x2

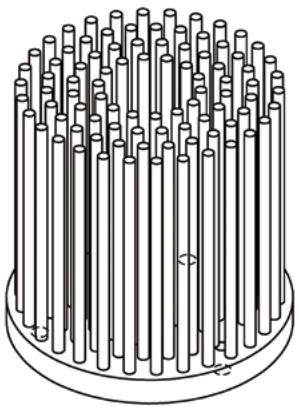
Screw thread around base contour

## Drawings & Dimensions

**Example : XSA-61-M2**
Unit: mm





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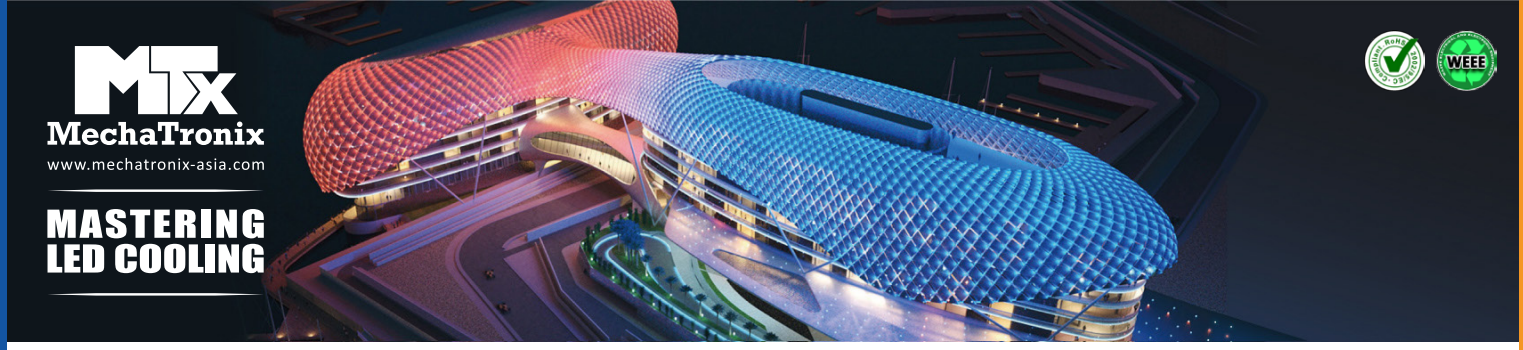
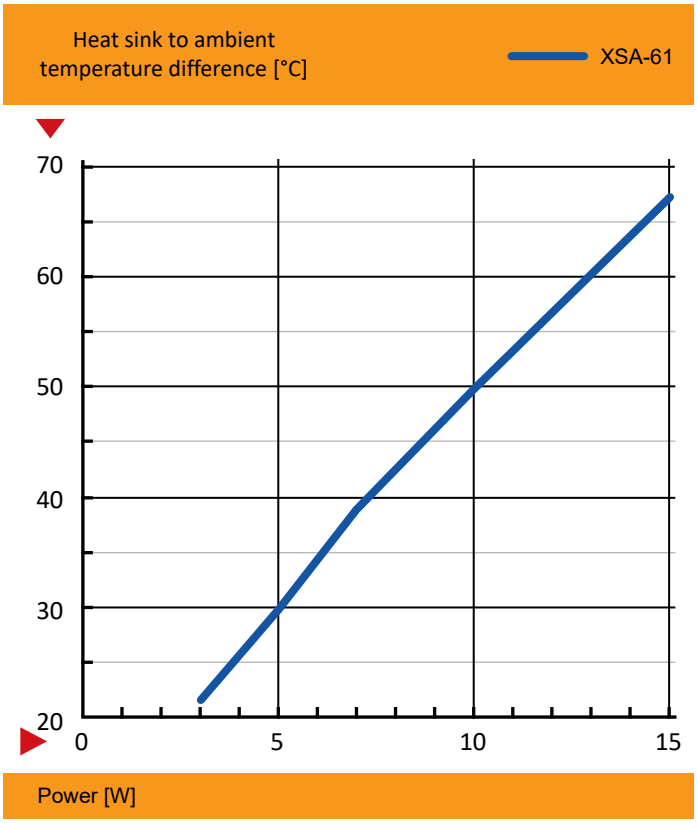



# XSA-61 Pin Fin Heat Sink ø 50mm for Xicato

## Thermal Data

**Heat sink base to ambient thermal resistance, Rhs-amb [K/W]**

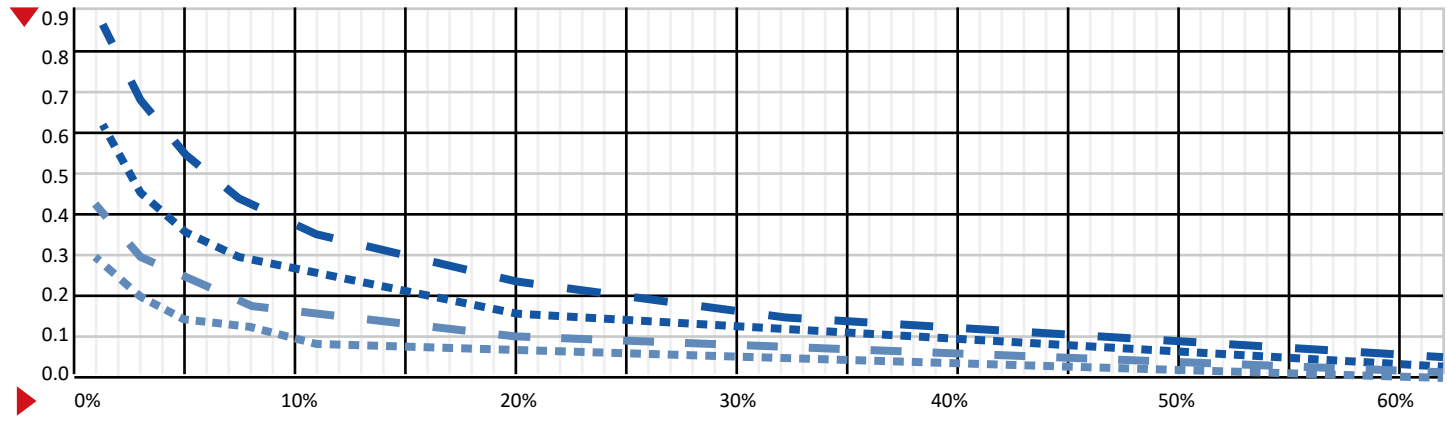
| Power (W) | XSA-61 |
|---|---|
| 3 | 7.0 |
| 5 | 6.1 |
| 7 | 5.6 |
| 10 | 5.0 |
| 15 | 4.5 |
| Rth Av. | 5.1 |




**Spreading resistance, Rsp [K/W]**

| Base thickness | | 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, Rsp [K/W], based on base thickness, t**



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