

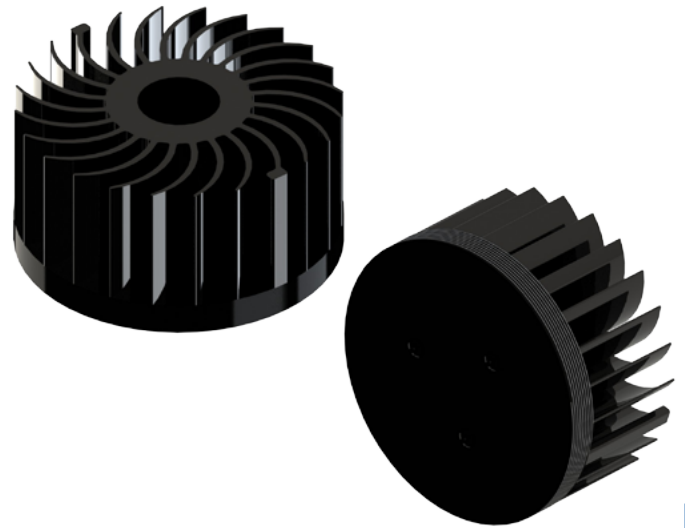
MechaTronix in LED

LSB99 LED Star Heat Sink diameter 99mm



Features & Benefits

- Diameter 99mm base
- Thermal resistance Rth 1.2 - 1.5°C/W
- Extra bottom adaptation plate with base 10mm for flexible mounting options
- Standard height 50mm & 80mm
Other heights on request
- Extruded from highly conductive aluminum
- Standard colors - clear anodised - black anodised



Order Information

Example: LSB9950-B-XXX

LSB99 **1**-**2**-**3**

1 Height (mm)

2 Anodising Color

B - Black

C - Clear

3 Mounting options

On request:

mounting holes, cable holes,

screw thread, thermal interface pad



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Product Details

	Total Height mm	Rth(°C/W)	Volume mm ³	Cooling Surface mm ²	Weight gr
LSB9950	50.00	1.5	174170.54	92925.93	468.72
LSB9980	80.00	1.2	271267.94	161794.67	730.88

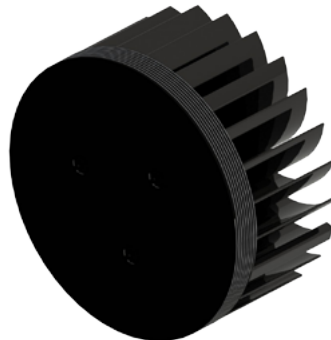
Notes:

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 extrusion process from highly conductive aluminum type AL6063 T5 with a typical Thermal Conductivity of 209W/m-K.

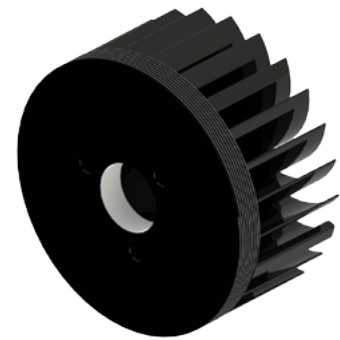
Mounting Option Examples



Thermal interface



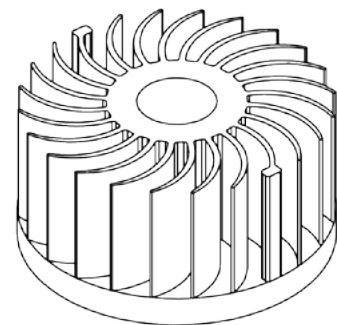
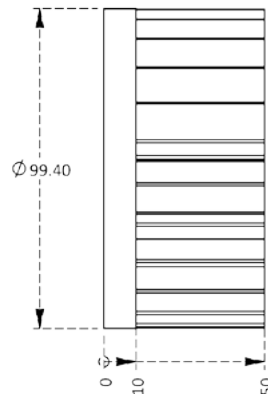
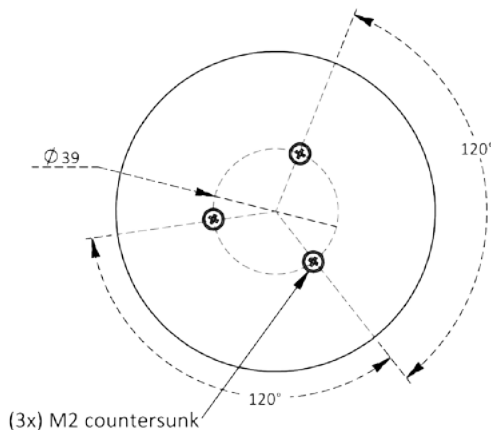
Outer screw thread



Cable hole + Outer screw thread

Drawings & Dimensions

Example: LSB9950-B-XXX



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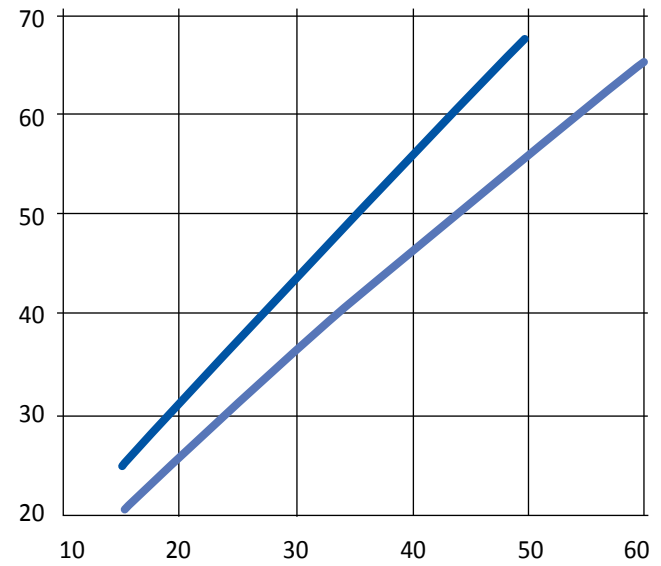
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Thermal Data

Heat sink base to ambient thermal resistance, Rhs-amb [K/W]		
Power (W)	LSB9950-Black	LSB9980-Black
15	1.6	1.4
17	1.6	1.3
20	1.6	1.3
25	1.5	1.2
30	1.5	1.2
40	1.4	1.2
50	1.4	1.1
60	n/a	1.1
Rth Av.	1.5	1.2

Heat sink to ambient temperature difference [°C]



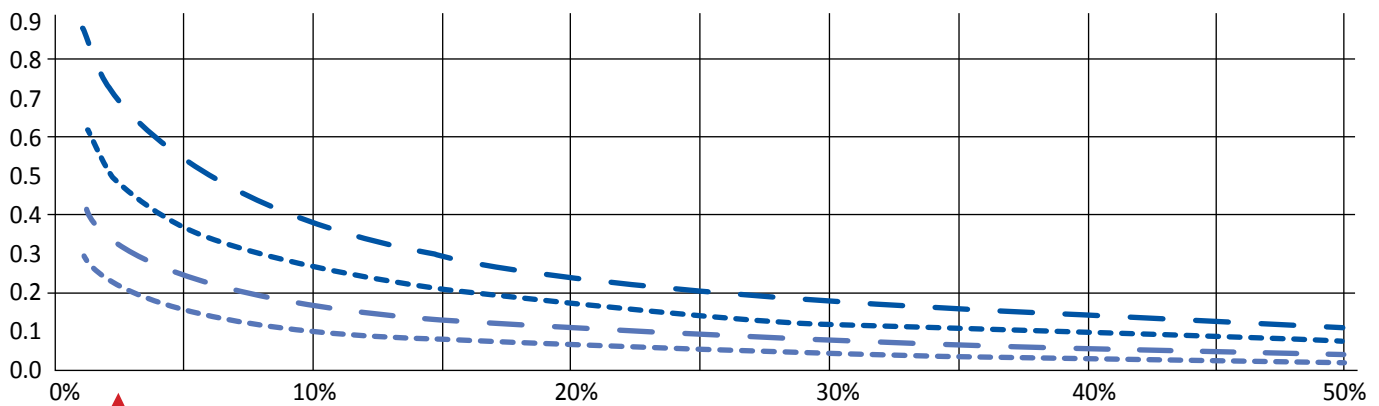
Spreading resistance, Rsp [K/W]					
Base thickness	t=2mm	t=3mm	t=5mm	t=10mm	
Ratio of light engine (LE) area over heat sink base area, ALE/Ahs [%]	1%	0.87	0.61	0.41	0.30
	3%	0.68	0.47	0.30	0.20
	5%	0.54	0.37	0.24	0.15
	8%	0.44	0.30	0.19	0.12
	11%	0.36	0.24	0.15	0.09
	20%	0.24	0.17	0.10	0.06
	32%	0.16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

Power [W]

Heat sink base spreading resistance, Rsp [K/W], based on base thickness, t

Spreading resistance, Rsp [K/W]

t=2mm t=3mm t=5mm t=10mm



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