

# MechaTronix *in* LED

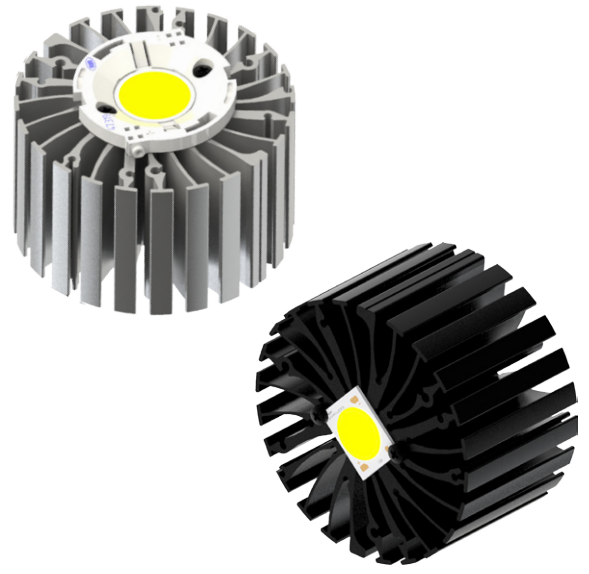
– PRODUCT BRIEF –

## ModuLED Micro Modular Passive Star LED Cooler ø86mm



### Features & Benefits

- For spot and downlight designs from 1,200 to 5,500 lumen
- Thermal resistance range Rth 1.2 - 1.8°C/W
- Modular design with mounting holes foreseen for a wide range of LED modules and COB's:
  - Zhaga Book 3 Spot Light Modules Edison Edilex SLM, Osram PrevaLED Core AC / AC PRO / Z3 / Z4, Philips Fortimo SLM, Seoul Semiconductor Acrich AC Zhaga, Sharp INTERMO, Tridonic Talexx Stark SLE G3 / G4, Vossloh Schwabe Luga Shop, ...
  - Bridgelux BXRA ESS, ESR, Vero & Décor Vero 10/13/18, V-series
  - Citizen Citeded CLL022-CLU024-CLU026-CLU028, CLL032-CLU034-CLU036-CLU038, CLL042-CLU044-CLU046-CLU048, CLU700, CLU710, CLU720
  - Cree XLamp CXA13, CXB13, CXA15, CXB15, CXA18, CXB18, CXA25, CXB25
  - Edison EdiPower II Star/HM series
  - LG Innotek LEMWM18 10W, 13W, 17W, 24W, LEMWM28, Eagle Eye
  - Lumileds Luxeon COB's 1203, 1204, 1205, 1208, 1211, 1216, Luxeon K arrays K12, K16
  - Luminus CLM-9 (ACxx), CXM-9 (ACxx), CHM-9 (ACxx), CXM-11 (ACxx), CHM-11-XH00, CLM-14 (ACxx), CXM-14 (ACxx), CHM-14 (ACxx), CVM-14, CXM-18, CVM-18, CLM-22, CXM-22
  - Osram PrevaLED Cube, Osram Soleriq P6, P9, P13, S13, S19
  - Philips Fortimo DLM Gen5
  - Prolight Opto PACE, PACF, PACG, PABS, PABA, PACB, PACC, PACD
  - Seoul Semiconductor ZC6, ZC12, ZC18, ZC25, ZC40
  - Sharp Mega Zenigata, Tiger Zenigata, Mini Zenigata
  - Tridonic TALEXX Stark SLE GEN3-19, -23, Mini LES-10, LES-17, TALEXXmodule SLE GEN1 11/15mm, SLE GEN4 10/15/19/23mm, 15mm D50, SLE GEN5 06/11/15/19/23mm, SLE GEN6 10/15/17/19/23mm, 15/17mm D50, DLE GEN2, GEN3 65mm
  - Vossloh Schwabe Luga Shop C 2016 DMC 124, 125, 128
- Diameter 86mm - Standard height 30mm & 50mm & 80mm  
Other heights on request
- Extruded from highly conductive aluminum



### Order Information


Example : ModuLED Micro 8650-B

ModuLED Micro 86 **1** - **2**

- 1** Height (mm)
- 2** Anodising Color  
B - Black  
C - Clear

*ModuLED Micro* is designed in this way that you can mount LED modules from various manufacturers on the same LED cooler  
Simple mounting with self tapping screws  
Recommended screw force 6lb/in  
Screws are available from MechaTronix

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## Product Details

Model n°	<i>ModuLED Micro</i> 8630	<i>ModuLED Micro</i> 8650	<i>ModuLED Micro</i> 8680
Dimension (mm) <sup>*1</sup>	ø86 x h30	ø86 x h50	ø86 x h80
Volume (mm <sup>3</sup> )	63046	105077	168123
Cooling Surface (mm <sup>2</sup> )	58993	95520	150311
Weight (gr)	170	284	454
Thermal Resistance (°C/W) <sup>*2</sup>	1.8	1.5	1.2
Power Pd (W) <sup>*3</sup>	28	33	42
Heat Sink Material	AL6063-T5	AL6063-T5	AL6063-T5

<sup>\*1</sup> 3D files are available in ParaSolid, STP and IGS on request

<sup>\*2</sup> The thermal resistance Rth is determined with a calibrated heat source of 30mm x 30mm central placed on the heat sink, Tamb 40° and an open environment. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C  
The thermal resistance of a LED cooler is not a fix value and will vary with the applied dissipated power Pd

<sup>\*3</sup> Dissipated power Pd. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C  
The maximal dissipated power needs to be verified in function of required case temperature Tc or junction temperature Tj and related to the estimated ambient temperature where the light fixture will be placed  
Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module

To calculate the dissipated power please use the following formula:  $Pd = Pe \times (1 - \eta_L)$

Pd - Dissipated power

Pe - Electrical power

$\eta_L$  = Light efficiency of the LED module

### Notes:

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