

ModuLED Micro Modular Passive Star LED Cooler ø86mm

Features & Benefits

- For spot and downlight designs from 2,700 to 8,000 lumen
- Thermal resistance range R_{th} 1.2 - 1.8°C/W
- Modular design with mounting holes foreseen for a wide range of LED modules and COB's:

- All Zhaga Book 3, Book 11 LED engines and holders
- Bridgelux Gen7 Vero & Décor Vero 10/13/18, Vero SE & Décor Vero SE 10/13/18, Gen7 V 10/18/22, Vesta Tunable White 9/13mm & Dim-To-Warm 9/15mm
- Citizen Citiled CLU028/02J, CLU038/03J, CLU048/04J, CLU702, CLU712
- Cree XLamp CXA13, CXB13, CXA15, CXB15, CXA18, CXB18, CXA25, CXB25
- Edison EdiPower II Star, Edison EdiPower III HM09/13/16/24/30/40
- LG Innotek LEMWM18 10W, 13W, 17W, 24W, LEMWM28, Eagle Eye
- Lumileds Gen4 Luxeon 1203, 1204, 1205, 1211, 1216, 1812
- Luminus CLM-9 (AC), CXM-9 (AC), CHM-9 (AC), CXM-11 (AC), CHM-11-XH00, CLM-14 (AC), CXM-14 (AC), CHM-14 (AC), CVM-14, CXM-18, CVM-18, CLM-22, CXM-22
- Nichia NTCWT012B, NTCWS024B, NFCWL036-048-060-072B, NFCWD084-096B, NFCWJ108-120B, NFDWJ130B, NVNWS007Z, NJCWS024Z, NVEWL016Z
- Osram PrevaLED Cube G2/AC
- Osram PrevaLED Cube, Osram Soleriq S13, S19
- Philips Fortimo DLM Gen5
- Prolight Opto PACE, PACF, PACG
- Seoul Semiconductor ZC6, ZC12, ZC18, ZC25, ZC40
- Sharp Mega Zenigata, Tiger Zenigata, Mini Zenigata
- Tridonic TALEXModule SLE GEN1 11/15mm, SLE GEN5 06/11/15mm, SLE GEN6 10/15/17mm, DLE GEN2, GEN3 65mm
- Xicato Chip on Board LED light source XOB14/23

- Diameter 86mm - Standard height 30mm & 50mm & 80mm
Other heights on request

- Extruded from highly conductive aluminum

Zhaga

Book 3
Book 11



Order Information

LED Holders

**BENDER
+ WIRTH**

BJB

IDEAL

TE
connectivity

LED Brands

bridgelux

CITIZEN
Micro HumanTech

CREE

EDISON

LG Innotek

Lit by
LUMILEDS

LUMINUS

NICHIA

OSRAM

OSRAM
Opto Semiconductors

LED X Light for you
powered by OSRAM
CERTIFIED PARTNER

PHILIPS

ProLight Opto
Technology Corporation

SEOL
SEOL SEMICONDUCTOR

SHARP

TRIDONIC

VS LIGHTING SOLUTIONS

Xicato

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

*1 3D files are available in ParaSolid, STP and IGS on request

*2 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

*3 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: $P_d = P_e \times (1 - \eta_L)$

Pd - Dissipated power

Pe - Electrical power

η_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.