

## ModuLED Pico Modular Passive Star LED Cooler ø47mm

### Features & Benefits

- For spot and downlight designs from 900 to 2,300 lumen
- Thermal resistance range Rth 4.2 - 5.3°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, Vero SE & Décor Vero SE 10/13, Gen7 V 10/13/18, Vesta Tunable White 9/13mm & Dim-To-Warm 9mm
  - Citizen Cited CLU026-CLU028, CLU036-CLU038, CLU700, CLU710
  - Cree XLamp CXA13, CXB13, CXA15, CXB15, CMT14, CMT19, CMA13, CMA15
  - Edison EdiPower II Star, Edison EdiPower III HM05/09/13/16/24
  - LG Innotek LEMWM18 10W, 13W, 17W
  - Lumileds Gen4 Luxeon 1203, 1204, 1205
  - Luminus Gen4 CXM-3(Pico-COB)/4(Pico-COB)/6/9(AC/AA), CIM-9/14, CLM-9/14, Gen3 CXM-6(AC)/9(AC)/11(AC), CIM-9(AC)/14(AC), CLM-9(AC)/14(AC), CHM-9 (XD20), Dynamic CDM-6/9, CTM-9/14
  - Nichia NTCWT012B, NTCWS024B, NFCWL036-048B
  - Prolight Opto PACE
  - Seoul Semiconductor ZC6, ZC12, ZC18
  - Sharp Mega Zenigata, Mini Zenigata
  - Tridonic TALEX module SLE GEN1 11mm, SLE GEN5 06/11/15mm, SLE GEN6 10/15mm
  - Xicato Chip on Board LED light source XOB06/09/14
- Diameter 47mm - Standard height 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**

**LED** Light for you  
powered by OSRAM  
CERTIFIED PARTNER

**PHILIPS**

**ProLight Opto**  
Technology Corporation

**SEOUL**  
SEOUL SEMICONDUCTOR

**SHARP**

**TRIDONIC**

**VLS** LIGHTING SOLUTIONS

**xicato**

Example : ModuLED Pico 4750-B

ModuLED Pico 47 **1-2**

**1** Height (mm)

**2** Anodising Color  
B - Black  
C - Clear

*ModuLED Pico* 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

## ModuLED Pico Modular Passive Star LED Cooler ø47mm

### Product Details

Model n°	ModuLED Pico 4750	ModuLED Pico 4780
Dimension (mm) <sup>*1</sup>	ø47 x h50	ø47 x h80
Volume (mm <sup>3</sup> )	48779	78046
Cooling Surface (mm <sup>2</sup> )	35707	55960
Weight (gr)	131	210
Thermal Resistance (°C/W) <sup>*2</sup>	5.3	4.2
Power Pd (W) <sup>*3</sup>	9.6	11.9
Heat Sink Material	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.