

ModuLED Pico | Citizen Modular Passive Star LED Cooler ø47mm

Features & Benefits

- The ModuLED Pico modular passive LED coolers are specifically designed for luminaires using Citizen Cited LED COB. Mechanical compatibility with direct mounting of the LED modules to the LED cooler and thermal performance matching the lumen packages.
- 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 Citizen Cited LU028/02J, LU038/03J, High Intensity Type Version 3 LU7B2/7A2/702 LED COB, direct mounting or by LED holder.
- Diameter 47mm - Standard height 50mm & 80mm
Other heights on request
- Extruded from highly conductive aluminum



Order Information



Example : ModuLED Pico 4750-B

ModuLED Pico 47 **1** - **2**

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

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) ^{*1}	ø47 x h50	ø47 x h80
Volume (mm ³)	48779	78046
Cooling Surface (mm ²)	35707	55960
Weight (gr)	131	210
Thermal Resistance (°C/W) ^{*2}	5.3	4.2
Power Pd (W) ^{*3}	9.6	11.9
Heat Sink Material	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: $Pd = Pe \times (1 - \eta_L)$

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.