

MechaTronix in LED

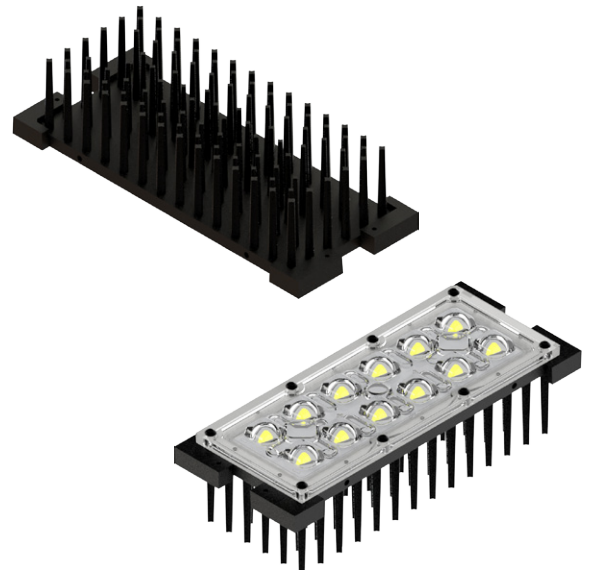
– PRODUCT BRIEF –

CoolBlock® LX-02-2x6 Rectangle Pin Fin LED Cooler



Features & Benefits

- The CoolBlock® LX-02-2x6 rectangle Pin Fin LED cooler is specifically designed for luminaires using the 2x6 platform. Mechanical compatibility with direct mounting of the LED engines to the LED cooler and thermal performance matching the lumen packages.
- For flood light, high bay and street light designs from 2,000 to 6,000 lumen
- Thermal resistance Rth 1.09°C/W
- Accommodating LED boards with 12 high power LEDs like the ADURA Sinkpad™ and Cezos Osram LED PCB's, direct mounting with just a few screws.
- Direct fit with Ledil Strada-IP-2x6, HB-IP-2x6 series, LedLink LL12CR-CUQ60145L02 and Khatod NACTUS 6x2 series lenses for IP67 waterproof designs in various beam patterns (Cable hole needs to be potted)
- Star-shaped pins for enhanced rigidity and cooling surface
- Simple extension by using CoolConnect® Inter-01 double headed bridge screw
- W80mm - L192mm - H45mm



Order Information



Example : CoolBlock® LX-02-2x6-B

CoolBlock® LX-02-2x6- **1**

1 Electro-coating Color

- B - Black
- C - Clear
- Z - custom (specify)

PCB mounting with CoolConnect® M3x4mm SUS304 black screws

Lens mounting with CoolConnect® M3x8mm SUS304 black screws

CoolBlock® extensions with CoolConnect® Inter-01 double headed bridge screw

Recommended screw force 6lb/in
Screws are available from MechaTronix

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Product Details

Model n°	CoolBlock® LX-02-2x6
Dimension (mm) ^{*1}	W80mm - L192mm - H45mm
Volume (mm ³)	128470
Cooling Surface (mm ²)	84621
Weight (gr)	340
Thermal Resistance (°C/W) ^{*2}	1.09
Power Pd (W) ^{*3}	45.8
Heat Sink Material	ADC12
Surface finishing	Black electro-coating

^{*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.