

CoolBlock® SQ-01 2x2MX Square Pin Fin LED Cooler

Features & Benefits

- The CoolBlock® SQ-01 2x2MX square Pin Fin LED cooler is specifically designed for luminaires using the 2x2MX 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 3,300 to 6,500 lumen
- Thermal resistance Rth 1.45°C/W
- Accommodating LED boards with 4 high power LEDs like the Lumileds Luxeon XR-M, Cezos Osram DURIS® P10, Adura SinkPAD 2x2MX, Cree XLamp CXA15 / CXB15, Citizen CITELED CLU028-0604C4 (18V) and Luminus Gen4 / Gen3, direct mounting or by using 2x2MX Bender+Wirth holder.
- Direct fit with Ledil Strada 2x2MX lenses for IP67 waterproof designs in various beam patterns
- Star-shaped pins for enhanced rigidity and cooling surface
- CoolBeam® mounting kits available
- W96mm - L96mm - H61.5mm
- With CoolConnect® Gland becomes IP67 waterproof cable feed-through



Order Information



Example : CoolBlock® SQ-01 2x2MX-B

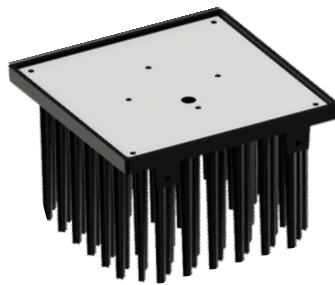
CoolBlock® SQ-01 2x2MX- **1**

- 1** Electro-coating Color
B - Black
Z - custom (specify)

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

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Product Details



Model n°

CoolBlock® SQ-01 2x2MX

Dimension (mm) ^{*1}	W96mm - L96mm - H61.5mm
Volume (mm ³)	86007
Cooling Surface (mm ²)	74633
Weight (gr)	230
Thermal Resistance (°C/W) ^{*2}	1.45
Power Pd (W) ^{*3}	34
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.