

W96 - L96 - H61.5 (mm)  
Rth 1.45 °C/W - Power Pd 34W  
**MORE PRODUCT DETAILS**

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

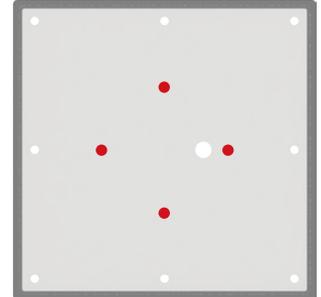
### Mounting Instructions

#### **CITIZEN** Micro HumanTech

The 2x2MX LED engines consist of 4 high power emitters placed on a square board of 73x73mm. Typically these engines produce between 3000lm and 6000lm, depending on the chosen driving current. Lifespan for these high power engines is a perfect thermal conductivity of the carrier board.

#### Mounting indicator marks overview

MechaTronix recommends the use of a high thermal conductive interface between the LED module and the LED cooler. Either thermal grease, a thermal pad or a phase change thermal pad thickness 0.1-0.15mm is recommended. Thermal pads or phase change thermal pads can be pre-applied from MechaTronix.



#### Citizen Cited CLU028-0604C4 (18V) LED COB + Bender Wirth 2x2MX holder

While the 2x2MX platform was originally foreseen for 4 high power emitters, this case proves that thinking out-of-the-box works...

Together with Bender+Wirth we developed this high end LED holders, enabling COB LED modules to be placed in the 2x2MX platform.

This Mica holders not only delivers a mechanical and electrical platform for the 4 COBs, but also brings a direct thermal advantage.

While other high power emitters have to be placed on a carrier board, what leads to an extra thermal resistance and additional heating, this system makes that the COBs sit direct on the LED cooler, reducing the resistance heat.

In this way the CoolBlock® SQ-01 2x2MX can be used up to 6000 lumen in an industrial environment, what is probably the most compact engine in the market

#### Model names

- CLU028-0604C4-xxxxxxx (18V)

#### Mounting

- With CoolConnect® holder 2x2MX-02 ( Co-development LED holder with Bender+Wirth )  
Mounting with 4 screws M3 x 4mm  
Red indicator marks

(4x) Citizen  
CLU028-0604C4 (18V)  
LED COB



CoolConnect® holder 2x2MX-02  
for 13.5x 13.5 COB