



EtraLED-CIT-11020 Citizen Modular Passive Star LED Heat Sink Φ110mm

Features VS Benefits

- * The EtraLED-CIT-11020 Citizen modular passive star LED heat sink are specifically designed for luminaires using the Citizen LED engines.
- * Mechanical compatibility with direct mounting of the LED engines to the LED cooler and thermal performance matching the lumen packages.
- * For spotlight and downlight designs from 1,600 to 4,200 lumen.
- * Thermal resistance range Rth 1.79°C/W.
- * Modular design with mounting holes foreseen for direct mounting of citizen COB series.
- * Diameter 110mm standard height 20mm Other heights on request.
- * Extruded from highly conductive aluminum.

Zhaga LED engine and radiator assembly is a unified future international standardization

- * Below you find an overview of Citizen COB's and LED modules which standard fit on the srar LED heat sinks.
- * In this way mechanical after work and related costs can be avoided, and lighting designers can standardize their designs on a limited number of srar LED heat sinks.

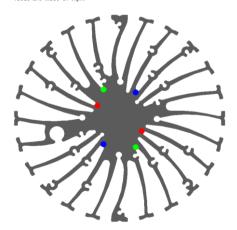












Citizen LED Modules directly Mounting Options Citizen COB version 4, version 5, version 6 Series:

CLU046-12xxxx; CLU048-12xxxx CLU046-18xxxx; CLU048-18xxxx;

Citizen High intensity COB Series:

BJB holder: 47.319.2030.50; AAG.STUCCHI: 8102-G2 Direct mounting with machine screws M3x6.5mm

Citizen LED Modules directly Mounting Options

Citizen COB version 4, version 5, version 6 Series:

CLU038-12xxxx

Citizen High intensity COB Series:

With the Zhaga Book 3 holders for the green indicator marks. Direct mounting with machine screws M3x6.5mm





Mounting Options and Drawings & Dimensions

Example:EtraLED-CIT-11020-B-1,2

Example:EtraLED-CIT-110 1 - 2 -

Height (mm)

2 Anodising Color

B-Black

C-Clear Z-Custom

Mounting Options - see graphics for details Combinations available

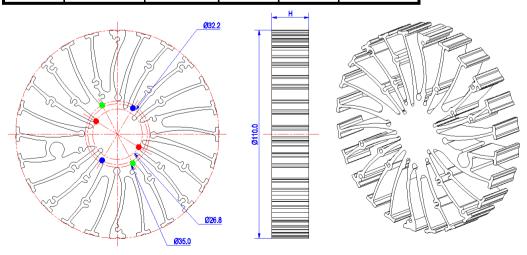
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means option 1 and 2 combined

Notes:

- Mentioned models are an extraction of full product range.
- For specific mechanical adaptations please contact MingfaTech.
- MingfaTech reserves the right to change products or specifications without prior notice.

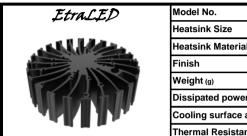
MOUNTING OPTION	Module type	Holder NO.	THREAD	THREAD DEPTH	THREAD HOLE DISTANCE
1	CLU036; CLU038 CLU721; CLU711	/	М3	6.5mm	26.8mm/ 2-@180°
2	CLU046; CLU048 CLU731	/	М3	6.5mm	32.2mm/ 2-@180°
3		BJB Holder 47.319.2030.50	МЗ	6.5mm	35.0mm/ 2-@180° (Zhaga book 3)
		AAG.STUCCHI 8102-G2			
	CLU036; CLU038 CLU721; CLU711	BJB Holder 47.319.2021.50			
		AAG.STUCCHI 8101-G2			







The product deta table

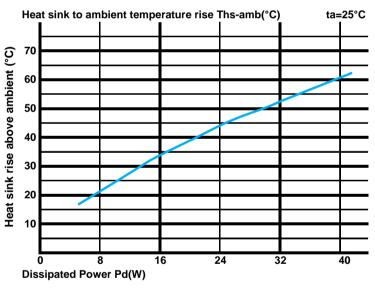


Model No.	EtraLED-CIT-11020		
Heatsink Size	Ф110xH20mm		
Heatsink Material	AL6063-T5		
Finish	Black Anodized		
Weight (g)	165.0		
Dissipated power (Ths-amb,50℃)	28.0 (W)		
Cooling surface area (mm²)	52211		
Thermal Resistance (Rhs-amb)	1.79 (°C/W)		

The thermal data table

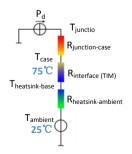
- * Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module.
- *To calculate the dissipated power please use the following formula: $Pd = Pe \times (1-\eta L)$.
- Pd Dissipated power ; Pe Electrical power ; $\eta L = \text{Light effciency of the LED module}$;

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)	
		EtraLED-CIT-11020		
Dissipated Power Pd(W)	8.0	2.50	20.0	
	16.0	2.06	33.0	
	24.0	1.83	44.0	
	32.0	1.63	52.0	
	40.0	1.50	60.0	



- *The aluminum substrate side of the package outer shell is thermally connected to the heat sink via TIM (Thermal interface material).

 MingFa recommends the use of a high thermal conductive interface between the LED module and the LED cooler.
- $Either thermal\ grease, A\ thermal\ pad\ or\ a\ phase\ change\ thermal\ pad\ thickness\ 0.1-0.15 mm\ is\ recommended.$



- *Thermal resistance is a heat property and a measurement of a temperature difference by which an object or material resists a heat flow. Geometric shapes are different, the thermal resistance is different. Formula: $\theta = (Ths Ta)/Pd$
- $\theta\,$ Thermal Resistance [°C/W] ; Ths - Heatsink temperature ; Ta - Ambient temperature ;
- *The thermal resistance between the junction section of the light-emitting diode and the aluminum substrate side of the package outer shell is $R_{\text{junction-case}}$, the thermal resistance of the TIM outside the package is $R_{\text{interface}}(\text{TIM})$ ["C/M], the thermal resistance with the heat sink is $R_{\text{heatsink-ambient}}$ ["C/M], and the ambient temperature is T_{ambient} ["C].
- *Thermal resistances outside the package $R_{interface \, (TIM)}$ and $R_{heatsink-ambient}$ can be integrated into the thermal resistance $R_{case-ambient}$ at this point. Thus, the following formula is also used: $T_{junction} = (R_{junction-case} + R_{case-ambient}) \cdot Pd + T_{ambient}$

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