



JXLED-22560 Passive Slot Fins Heat sink Φ 225mm

Features VS Benefits

- * Mechanical compatibility with direct mounting of the SMD products to the LED cooler and thermal performance matching the lumen packages.
- * For flood light, street light and high bay designs from 9,000 to 23,000 lumen.
- * Thermal resistance range R_{th} 0.34°C/W.
- * Product size: Diameter 225mm - Standard height 60mm , Other widths on request.
- * Forged from highly conductive aluminium for optimal thermal performance (AL1070), aluminium 1070 thermal conductivity is 2.0 times higher than ADC12.
- * 2 standard colors - clear anodised - black anodised
- * Waterproof level designs from IP65 to IP67.
- * With the SMD products (3030 , 2835 , 5050.....): Bridgelux , Cree , Edison , Citizen , LG Innote Lumileds , Luminus, Lumens , Nichia , Osram , Prolight Opto , Seoul , Samsung , Sharp.



The LED engine and radiator assembly directly Mounting Options

- * Below you find an overview of SMD products which standard fit on the xLED series coolers.
- * In this way mechanical after work and related costs can be avoided, and lighting designers can standardize their designs on a limited number of LED coolers.

Waterproof connectors & Driver



Not only consider waterproofness of the lens, but also on outside connecting line. Jaro Thermal can provide compatible waterproof connector with xLED heat sink.

Features :

The claws and seals excellent design, can hold cable firmly and have a wider cable range. Resistant to salt water, weak acid, alcohol, oil, grease and common solvency.

1. Working temperature: Min -40°C to Max 120°C.
2. Body material: Brass nickel plated.
3. Cable range Dia: 3-6mm.
4. Protection degree: IP68

Jaro Thermal product number:

1. 21000001-04 (M8)
2. 21000002-04 (M10)

With the Drivers:

1. MEAN WELL: HBG-160 Series; HBG-240 Series;
2. INVENTRONICS: EUR-150Sxxx Series; EUR-200Sxxx Series; EUR-240Sxxx Series;

Order Information

Example: JXLED-22560-B

Example: JXLED-22560 - **1**

1 Anodising Color

- B-Black
- C-Clear
- Z-Custom

Notes:

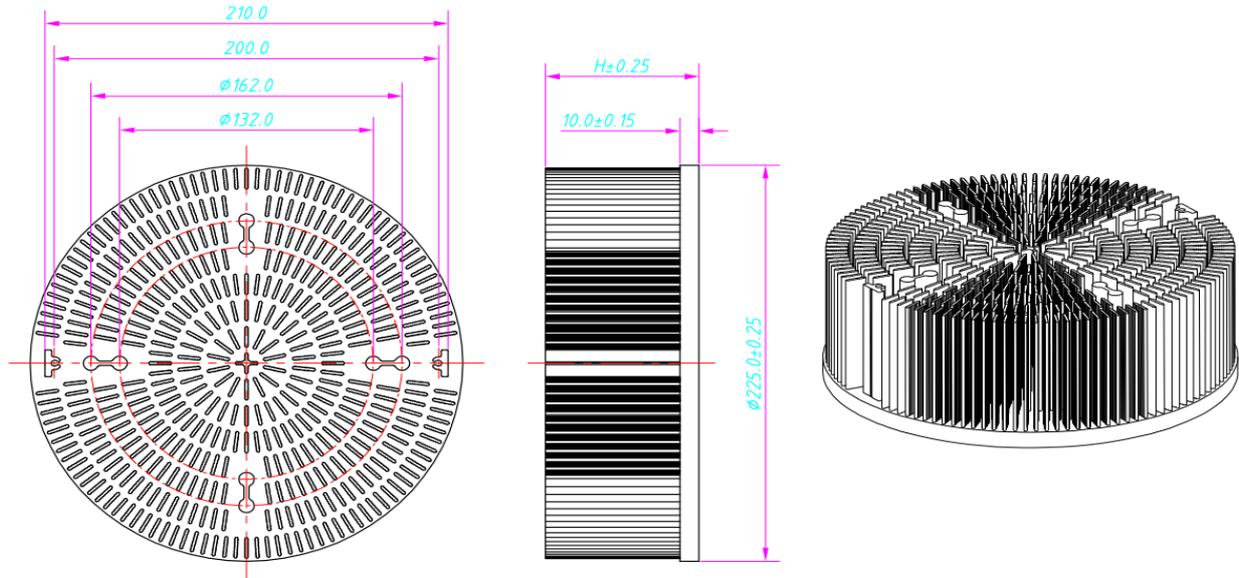
- Mentioned models are an extraction of full product range.
- For specific mechanical adaptations please contact Jaro Thermal.
- Jaro Thermal reserves the right to change products or specifications without prior notice.



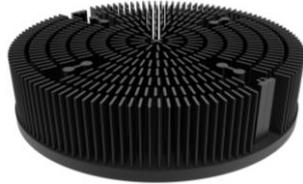


JXLED-22560 Passive Slot Fins Heat sink $\Phi 225\text{mm}$

Drawings & Dimensions



Product data table

	
Model No.	JXLED-22560
Heatsink Size	$\Phi 225 \times H60\text{mm}$
Heatsink Material	AL1070
Finish	Black Anodized
Weight (Kg)	2.22
Dissipated power (T_{hs-amb}, 50°C)	150.0 (W)
Cooling surface area (mm²)	673851
Thermal Resistance (R_{hs-amb})	0.34 (°C/W)



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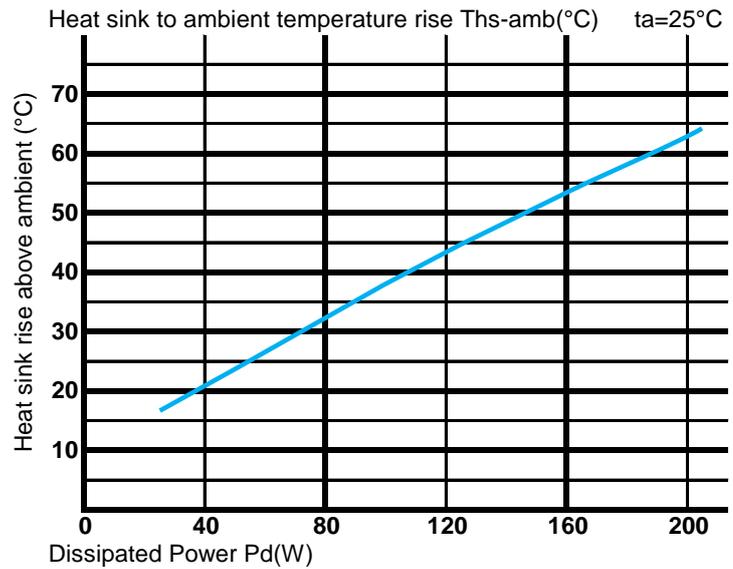
The thermal data table

* Please be aware the dissipated power P_d is not the same as the electrical power P_e of a LED module.

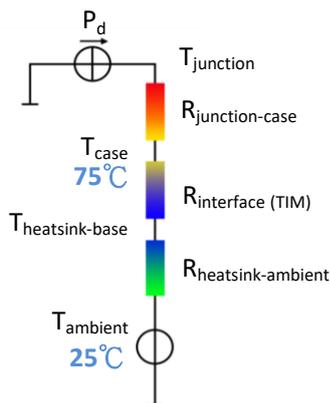
*To calculate the dissipated power please use the following formula: $P_d = P_e \times (1-\eta_L)$.

P_d - Dissipated power ; P_e - Electrical power ; η_L = Light efficiency of the LED module;

Dissipated Power P_d (W)	Heat sink to ambient thermal resistance Rhs-amb ($^{\circ}\text{C}/\text{W}$)		Heat sink to ambient temperature rise Ths-amb ($^{\circ}\text{C}$)	
	JXLED-22560			
40.0	0.53	21.0		
80.0	0.41	33.0		
120.0	0.37	44.0		
160.0	0.33	53.0		
200.0	0.32	63.0		



*The aluminum substrate side of the package outer shell is thermally connected to the heat sink via TIM (Thermal interface material). Jaro Thermal 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 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: $\theta = (T_{hs} - T_a) / P_d$

θ - Thermal Resistance [$^{\circ}\text{C}/\text{W}$]; T_{hs} - Heatsink temperature ; T_a - 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 of the TIM outside the package is $R_{\text{interface (TIM)}}$ [$^{\circ}\text{C}/\text{W}$], the thermal resistance with heat sink is $R_{\text{heatsink-ambient}}$ [$^{\circ}\text{C}/\text{W}$], and the ambient temperature is T_{ambient} [$^{\circ}\text{C}$].

*Thermal resistances outside the package $R_{\text{interface (TIM)}}$ and $R_{\text{heatsink-ambient}}$ can be into the thermal resistance $R_{\text{case-ambient}}$ at this point. Thus, the following formula is also used:

$$T_{\text{junction}} = (R_{\text{junction-case}} + R_{\text{case-ambient}}) \cdot P_d + T_{\text{ambient}}$$