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2 Anodising Color B-Black C-Clear

Z-Custom

Mounting Options - see graphics for

Notes:

- Mentioned models are an extraction of full product range.

Ex.order code - 12

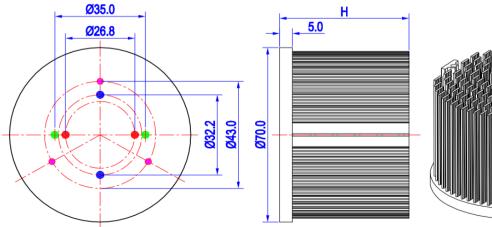
- For specific mechanical adaptations please contact MingfaTech.

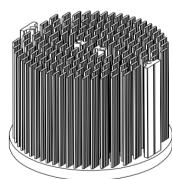
means option 1 and 2 combined

details Combinations available

- MingfaTech reserves the right to change products	s or specifications without prior notice.
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MOUNTING	Module type	Holder NO.	LEDiL products		LEDiL products	THREAD	THREAD	THREAD HOLE
OPTION	Module type	Holder NO.	Olivia series	Ronda series		DEPTH	DISTANCE	
1	COB Size 19×19mm	/	FN14637-S; FN14828-M;	FN15xxx-xx;	М3	6.5mm	26.8mm/ 2-@180°	
2	COB Size 28×28mm	/	1	/	M3	6.5mm	32.2mm/ 2-@180°	
		BJB Holder 47.319.2030.50		,	- M3	6.5mm	35.0mm/ 2-@180° (Zhaga book 3)	
3		AAG.STUCCHI 8102-G2		/				
5	COB Size	BJB Holder 47.319.2021.50	FN14637-S; FN14828-M; FN14828-M;	EN15yyyyyy				
19×19mm	19×19mm	AAG.STUCCHI 8101-G2						
4	AC Module	/	/	/	M2	6.5mm	43.0mm/ 3-@120°	





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xLED-SEO-7030 Pin Fin Heat Sink Ø70mm for Seoul

The product deta table

xLED	Model No.	xLED-SEO-7030	
	Heatsink Size	Φ70xH30mm	
	Heatsink Material	AL1070	
	Finish	Black Anodized	
Culture 8	Weight (g)	106.0	
	Dissipated power (Ths-amb,50℃)	13.0 (W)	
	Cooling surface area (mm²)	54786	
	Thermal Resistance (Rhs-amb)	3.85 (°C/W)	

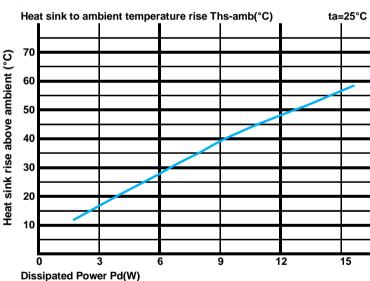
The thermal data table

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

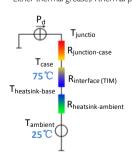
*To calculate the dissipated power please use the following formula: $Pd = Pe \times (1 - \eta L)$.

Pd - Dissipated power ; Pe - Electrical power ; ηL = 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)
		xLED-SEO-7030	
(M)	3.0	5.33	16.0
er Pd(6.0	4.50	27.0
d Pow	9.0	4.33	39.0
Dissipated Power Pd(W)	12.0	3.92	47.0
Dis	15.0	3.73	56.0



*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 0.1-0.15mm 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: $\theta = (Ths - Ta)/Pd$

 θ - 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_{junction-case}, the thermal resistance of the TIM outside the package is R_{interface (TIM)} [°C/W], the thermal resistance with the heat sink is $R_{heatsink-ambient}$ [°C/W], 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 $\mathsf{R}_{case-ambient}$ 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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