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GooLED-NIC-6830 Pin Fin Heat Sink Φ68mm for Nichia

**Mounting Options and Drawings & Dimensions** 

3

Example:GooLED-NIC-6830-B-1,2 Example:GooLED-NIC-68 1 Height (mm) Anodising Color B-Black C-Clear Z-Custom

## Notes:

- Mentioned models are an extraction of full product range.
- For specific mechanical adaptations please contact MingfaTech.

means option 1 and 2 combined

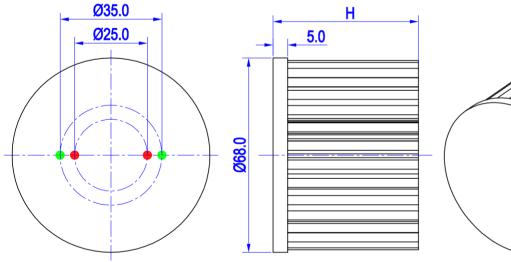
details Combinations available

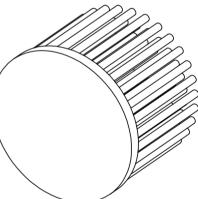
Ex.order code - 12

Mounting Options - see graphics for

- MingfaTech reserves the right to change products or sp	pecifications without prior notice.
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MOUNTING	NTING Module type Holder NO.		products	THREAD	THREAD	THREAD HOLE	
OPTION	Module type	noider NO.	Lena series	Ronda series	INKEAD	DEPTH	DISTANCE
N	/	None	None	None	None	None	None
1	NVCWL024Z; NVCLL024Z;	BJB Holder 47.319.6180.50			M3	6.5mm	25.0mm/ 2-@180° (Zhaga book 11)
1	NVNWS007Z; NJCWS024Z;	TE Holder 2213118-1	CN14xxx;	FN15xxx-xx			
2	NFCWL036B; Ideal Holder C13xxx; FN15xxx-xx   NFCLL036B; 50-2100NC C12xxx; FN15xxx-xx   NFCWL060B; TE Holder C12xxx; FN15xxx-xx   NFCLL060B; 2213382-2 FN15xxx-xx FN15xxx-xx		C12xxx;	FINT5XXX-XX	M3 6.5mm	35.0mm/ 2-@180°	
2		IVIS	0.011111	(Zhaga book 3)			





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## GooLED-NIC-6830 Pin Fin Heat Sink Ø68mm for Nichia

## The product deta table

GOOLED	Model No.	GooLED-NIC-6830
GOOLED	Heatsink Size	Ф68хH30mm
	Heatsink Material	AL1070
	Finish	Black Anodized
	Weight (g)	108.0
	Dissipated power (Ths-amb,50℃)	12.5 (W)
	Cooling surface area (mm <sup>2</sup> )	36775
	Thermal Resistance (Rhs-amb)	4.0 (°C/W)

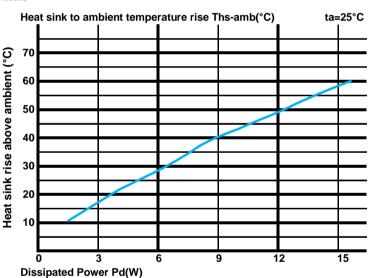
## The thermal data table

\* 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:  $Pd = Pe \times (I - \eta L)$ .

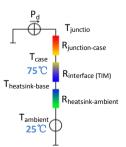
Pd - Dissipated power ; Pe - Electrical power ;  $\eta L$  = Light effciency of the LED module;

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		GooLED-NIC-6830	
(M)	3.0	5.67	17.0
er Pd(	6.0	4.67	28.0
d Pow	9.0	4.44	40.0
Dissipated Power Pd(W)	12.0	4.08	49.0
Dis	15.0	3.87	58.0



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

heta - 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<sub>junction-case</sub>, the thermal resistance of the TIM outside the package is R<sub>interface (TIM)</sub> [°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  $R_{\text{interface (TIM)}}$  and  $R_{\text{heatsink-ambient}}$  can be integrated into the thermal resistance  $R_{\text{case-ambient}}$  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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