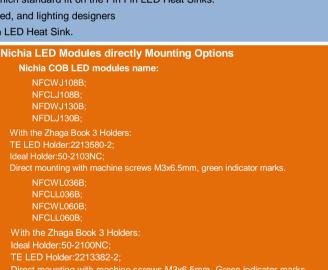


- * For spotlight and downlight designs from 2,500 to 7,000 lumen.
- * Thermal resistance range Rth 1.14°C/W.
- * Modular design with mounting holes foreseen for direct mounting of Nichia COB series.
- * Diameter 110mm standard height 80mm, Other heights on request.
- * Forged from highly conductive aluminum.
- Zhaga LED engine and radiator assembly is a unified future international standardization

 * Below you find an overview of Nichia COB's and LED modules which standard fit on the Pin Fin 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 LED Pin Fin LED Heat Sink.



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TE LED Holder:2213382-2; Direct mounting with machine screws M3x6.5mm, Green indicator marks. With the LEDiL products: Lena series: CN14xxx; C13xxx; C12xxx; Ronda series: FN15xxx-xx;

Nichia COB LED modules name:

NVCWL024Z; NVCLL024Z; NVNWS007Z; NJCW S024Z; With the Zhaga Book 11 Holders: BJB holder:47.319.6180.50; TE LED Holder:2213118-1; Direct mounting with machine screws M3x8mm, Blue indicator marks. With the LEDiL products: Stella Series: FN13xxx-xx; FN14xxx-xx; Stella Series: FN13xxx-xx; FN14xxx-xx; Stella Series: CN14xxx; C13xxx; C12xxx; Ronda series: FN15xxx-xx;





GooLED-NIC-11080 Pin Fin Heat Sink Φ110mm for Nichia

Mounting Options and Drawings & Dimensions

3

Example:GooLED-NIC-11080-B-1,2 Example:GooLED-NIC-110 Height (mm) Anodising Color B-Black C-Clear

Z-Custom

Ex.order code - 12

Notes:

- Mentioned models are an extraction of full product range.

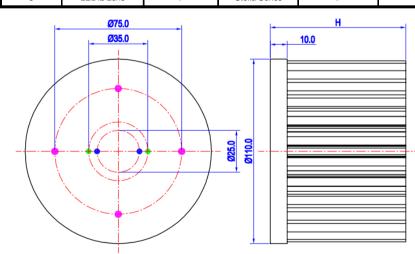
- For specific mechanical adaptations please contact MingfaTech.

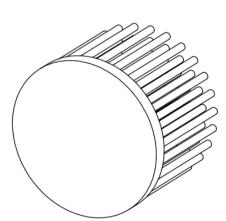
means option 1 and 2 combined - MingfaTech reserves the right to change products or specifications without prior notice.

Mounting Options - see graphics for

details Combinations available

MOUNTING OPTION	Module type	Holder NO.	LEDiL products				THREAD	THREAD HOLE
			Stella Series	Lena series	Ronda series	THREAD	DEPTH	DISTANCE
Ν	/	None	None	None	None	None	None	None
1	NVCWL024Z; NVCLL024Z; NVNWS007Z; NJCWS024Z;	BJB Holder 47.319.6180.50	FN13xxx-xx; FN14xxx-xx;	CN14xxx; C13xxx; C12xxx;	FN15xxx-xx	M3	6.5mm	25.0mm/ 2-@180° (Zhaga book 11)
		TE Holder 2213118-1						
2	NFCWL036B; NFCLL036B; NFCWL060B; NFCLL060B;	Ideal Holder 50-2100NC	1			МЗ	6.5mm	35.0mm/ 2-@ 180° (Zhaga book 3)
		TE Holder 2213382-2						
	NFCWJ108B; NFCLJ108B; NFDWJ130B; NFDLJ130B;	Ideal Holder 50-2103NC						
		TE Holder 2213358-2						
3	LEDiL Lens	/	Stella Series	1	1	M4	8.5mm	75.0mm/ 4-@90°





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GooLED-NIC-11080 Pin Fin Heat Sink Ø110mm for Nichia

The product deta table

GooLED	Model No.	GooLED-NIC-11080		
	Heatsink Size	Ф110xH80mm		
	Heatsink Material	AL1070		
	Finish	Black Anodized		
	Weight (g)	617.0		
	Dissipated power (Ths-amb,50℃)	44.0 (W)		
	Cooling surface area (mm ²)	129119		
	Thermal Resistance (Rhs-amb)	1.14 (°C/W)		

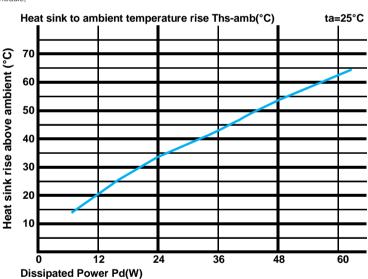
The thermal data table

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

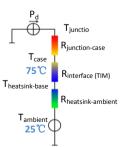
Pd - Dissipated power ; Pe - Electrical power ; ηL = Light effciency of the LED module;

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)	
		GooLED-NIC-11080		
Dissipated Power Pd(W)	12.0	1.67	20.0	
	24.0	1.38	33.0	
	36.0	1.17	42.0	
	48.0	1.10	53.0	
	60.0	1.03	62.0	



*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_{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 $R_{\text{interface (TIM)}}$ 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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