



for LED



eLED

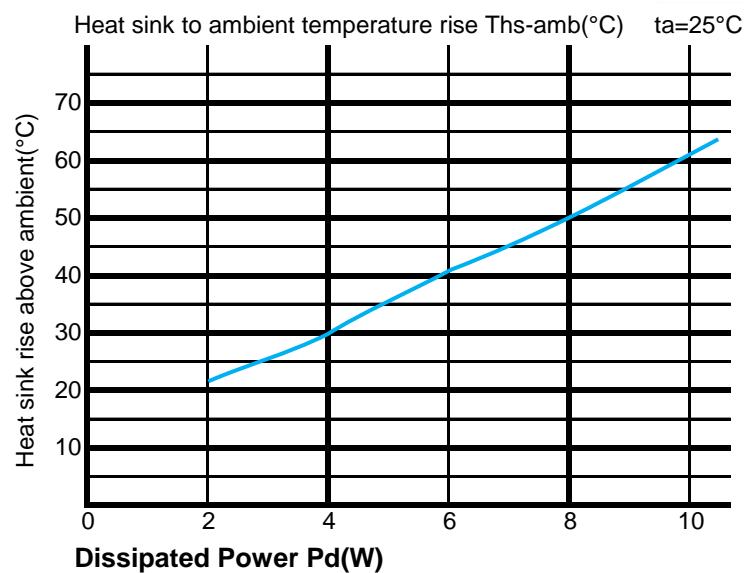
eLED-46 Series $\Phi 46\text{mm}$ Material AL6063-T5 COB Star Heat Sinks Thermal Data

The thermal data table



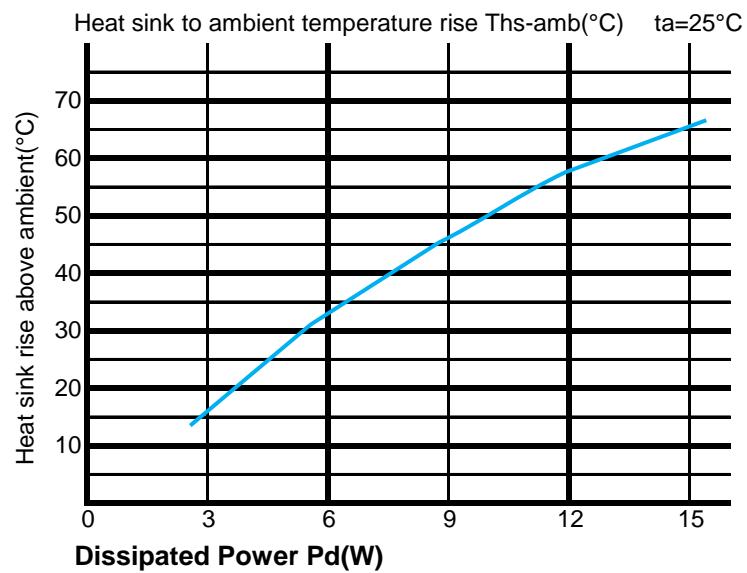
eLED-4620 thermal data

Dissipated Power Pd(W)	Heat sink to ambient thermal resistance Rhs-amb (°C/W)		Heat sink to ambient temperature rise Ths-amb (°C)
	eLED-4620	eLED-4620	
2	11	22	
4	7.5	30	
6	6.8	41	
8	6.3	50	
10	6.2	62	



eLED-4650 thermal data

Dissipated Power Pd(W)	Heat sink to ambient thermal resistance Rhs-amb (°C/W)		Heat sink to ambient temperature rise Ths-amb (°C)
	eLED-4650	eLED-4650	
3	5.67	17	
6	5.5	33	
9	5.22	47	
12	4.83	58	
15	4.33	65	





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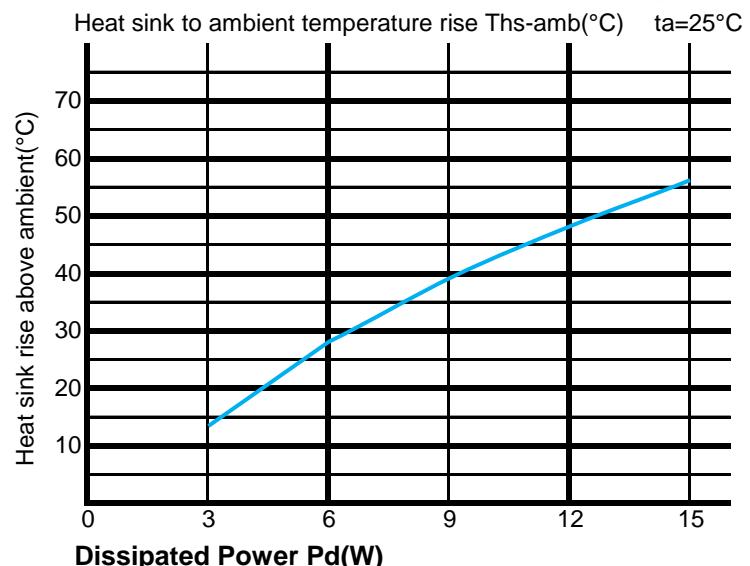
eLED-46 Series Φ46mm Material AL6063-T5 COB Star Heat Sinks Thermal Data

The thermal data table



eLED-4680 thermal data

Dissipated Power Pd(W)	Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)	Pd = Pe x (1-ηL)
			eLED-4680
3	4.67	14	
6	4.68	28	
9	4.33	39	
12	4	48	
15	3.73	56	



* 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 efficiency of the LED module;

*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.

