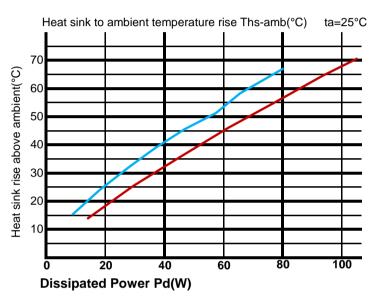


SimpoLED-117 Series Φ117mm Material AL6063-T5 COB Star Heat Sinks Thermal Data

## The thermal data table

SimpoLED-11780 thermal data			
Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		SimpoLED-11750	SimpoLED-11780
Dissipated Power Pd(W)	15	20.5	15.2
	30	35.5	26.4
	45	44	38.3
	60	55	49.2
	75		56.3
	90		61.2



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

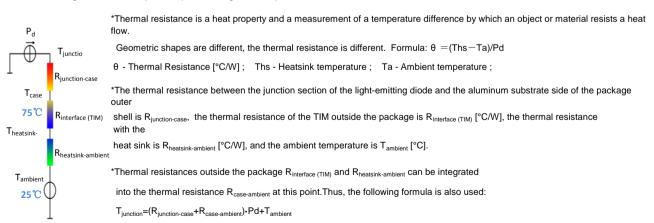
\*To calculate the dissipated power please use the following formula:  $Pd = Pe x (1-\eta L)$ .

Pd - Dissipated power ; Pe - Electrical power ;  $\eta L$  = Light effciency 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.



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