

【Annex】

Thermal Resistance Values of the Nichia 093 Series LEDs



Part Number	Thermal Resistance $R_{\theta JMP}$ (°C/W)	Part Number	Thermal Resistance $R_{\theta JMP}$ (°C/W)
NC2W093B	3.8	NC2W093B-S1	3.8
NC3W093B	2.9	NC3W093B-S1	2.9
NC4W093B	2.5	NC4W093B-S1	2.5
NC5W093B	2.3	NC5W093B-S1	2.3

- The $R_{\theta JMP}$ is the thermal resistance from the chip of the LED to the measurement point Nichia specifies (i.e. the T_{MP} measurement point).
- The estimated value of the junction temperature (T_J) of the LED can be calculated by measuring the T_{MP} (i.e. the temperature of the T_{MP} measurement point) of the LED mounted on a PCB and using the $R_{\theta JMP}$ value provided above. For details of how to calculate the T_J , refer to the application note: How to Calculate the Junction Temperature for the Nichia 093 Series LEDs.
- The $R_{\theta JMP}$ values provided above should be used for reference purposes only.
- For the LEDs whose $R_{\theta JMP}$ values are not provided above, contact a local Nichia sales representative.

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